

VDOİHİ

Bağımlı ve Bir Bağımsız Olasılıklı
Farklı Dizilimsiz Bağımlı Durumlu
Simetrinin İlk ve Son Durumunun
Bulunabileceği Olaylara Göre Tek
Kalan Düzgün Olmayan Simetrik
Olasılık

Cilt 2.3.3.3.2.1.1.2

İsmail YILMAZ

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VDOİHİ Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin ilk ve son durumunun bulunabileceği olaylara göre tek kalan düzgün olmayan simetrik olasılık Cilt 2.3.3.3.2.1.1.2

İsmail YILMAZ

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KÜTÜPHANE BİLGİLERİ

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1. Bağımlı durumlu simetrisinin ilk ve son durumunun bulunabileceği olaylara göre tek kalan düzgün olmayan simetrik olasılık

Dili: Türkçe + Matematik Mantık



K. Atatürk

Türkiye Cumhuriyeti Devleti
Kuruluşunun
100. Yılı Anısına

Yazar Hakkında

İsmail YILMAZ; Hamzabey Köyü, Yeniçağa, Bolu'da 1973 yılında doğdu. İlkokulu köyünde tamamladıktan sonra, ortaokulu Yeniçağa ortaokulunda tamamladı. Liseyi Ankara Ömer Seyfettin ve Gazi Çiftliği Liselerinde okudu. Lisans eğitimini Çukurova Üniversitesi Fen Edebiyat Fakültesi Fizik bölümünde, yüksek lisans eğitimini Sakarya Üniversitesi Fen Bilimleri Enstitüsü Fizik Anabilim Dalında ve doktora eğitimini Gazi Üniversitesi Eğitim Bilimleri Enstitüsü Fen Bilgisi Eğitimi Anabilim Dalında tamamladı. Fen Bilgisi Eğitiminde; Newton'un hareket yasaları, elektrik ve manyetizmanın prosedürel ve deklaratif bilgi yapılarıyla birlikte matematik mantık yapıları üzerine çalışmalar yapmıştır. Yazarın farklı alanlarda yapmış olduğu çalışmalar arasında ölçme ve değerlendirmeye yönelik çalışmaları da mevcuttur.

VDOİHİ

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Sanırım bilgi ve teknolojideki kaderimiz veriyle ilişkilendirilmiş.

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GÜLDÜNYA

Simge ve Kısaltmalar

n : olay sayısı

n : bağımlı olay sayısı

m : bağımsız olay sayısı

l : bağımsız durum sayısı

L : simetrimin bağımsız durum sayısı

l : simetrimin bağımlı durumlarından önce bulunan bağımsız durum sayısı

L : simetrimin bağımlı durumlarından sonra bulunan bağımsız durum sayısı

k : simetrimin bağımlı durumları arasındaki bağımsız durumların sayısı

k : dağılımın başladığı bağımlı durumun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası

l : ilgilenilen bağımlı durumun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası

l : simetrimin ilk bağımlı durumunun, bağımlı olasılık farklı dizilimsiz dağılımın son olayı için sırası. Simetrimin sonuncu bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlardaki sırası

l_i : simetrimin son bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası. Simetrimin birinci bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlardaki sırası

l_s : simetrimin ilk bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz

dağılımlardaki sırası. Simetrimin sonuncu bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlardaki sırası

l_{ik} : simetrimin aranacağı durumdan önce bulunan bağımlı durumun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası veya simetrimin iki bağımlı durumu arasında bağımsız durum bulunduğunda, bağımsız durumdan önceki bağımlı durumun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası

l_{sa} : simetrimin aranacağı bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası. Simetrimin aranacağı bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlardaki sırası

j : son olaydan/(alt olay) ilk olaya doğru aranılan olayın sırası

j_i : simetrimin son bağımlı durumunun, bağımlı olasılıklı dağılımlarda bulunabileceği olayların, son olaydan itibaren sırası

j_{sa}^i : simetriyi oluşturan bağımlı durumlar arasında simetrimin son bağımlı durumunun bulunduğu olayın, simetrimin son olayından itibaren sırası ($j_{sa}^i = s$)

j_{ik} : simetrimin ikinci olayındaki durumun, gelebileceği olasılık dağılımlardaki olayın sırası (son olaydan ilk olaya doğru) veya simetride, simetrimin aranacağı durumdan önce bulunan bağımlı durumun, bağımlı olasılıklı dağılımlarda bulunabileceği olayların, son olaydan itibaren sırası veya simetrimin iki bağımlı

durum arasında bağımsız durumun bulunduğu bağımsız durumdan önceki bağımlı durumun bağımlı olasılıklı dağılımlarda bulunabileceği olayların son olaydan itibaren sırası

j_{sa}^{ik} : j_{ik} 'da bulunan durumun simetriyi oluşturan bağımlı durumlar arasında bulunduğu olayın son olaydan itibaren sırası

$j_{x_{ik}}$: simetrinin ikinci olayındaki durumun, olasılık dağılımlarının son olaydan itibaren bulunabileceği olayın sırası

j_s : simetrinin ilk bağımlı durumunun, bağımlı olasılıklı dağılımlarda bulunabileceği olayların, son olaydan itibaren sırası

j_{sa}^s : simetriyi oluşturan bağımlı durumlar arasında simetrinin ilk bağımlı durumunun bulunduğu olayın, simetrinin son olayından itibaren sırası ($j_{sa}^s = 1$)

j_{sa} : simetriyi oluşturan bağımlı durumlar arasında simetrinin aranacağı durumun bulunduğu olayın, simetrinin son olayından itibaren sırası

j^{sa} : j_{sa} 'da bulunan durumun bağımlı olasılıklı dağılımda bulunduğu olayın son olaydan itibaren sırası

D : bağımlı durum sayısı

D_i : olayın durum sayısı

s : simetrinin bağımlı durum sayısı

s : simetrik durum sayısı. Simetrinin bağımlı ve bağımsız durum sayısı

m : olasılık

M : olasılık dağılım sayısı

U : uyum eşitliği

u : uyum derecesi

s_i : olasılık dağılımı

${}_{fz}S_{j_i}^{DST}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin son durumunun bulunabileceği olaylara göre tek kalan simetrik olasılık

${}_{fz}S_{j_i,0}^{DST}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrinin son durumunun bulunabileceği olaylara göre tek kalan simetrik olasılık

${}_{fz}S_{j_i,D}^{DST}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin son durumunun bulunabileceği olaylara göre tek kalan simetrik olasılık

${}_{fz}^0S_{j_i}^{DST}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız veya bağımlı-bağımsız durumlu simetrinin son durumunun bulunabileceği olaylara göre tek kalan simetrik olasılık

${}_{fz}^0S_{j_i,0}^{DST}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız veya bağımlı-bağımsız durumlu bağımsız simetrinin son durumunun bulunabileceği olaylara göre tek kalan simetrik olasılık

${}_{fz}^0S_{j_i,D}^{DST}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız veya bağımlı-bağımsız durumlu bağımlı simetrinin son durumunun bulunabileceği olaylara göre tek kalan simetrik olasılık

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$f_{Z,0} S_{j_s,j_i,0}^{DST}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı

durumlu bağımsız simetrisinin ilk ve son durumunun bulunabileceği olaylara göre tek kalan simetrik olasılık

$f_{Z,0} S_{j_s,j_i,D}^{DST}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrisinin ilk ve son durumunun bulunabileceği olaylara göre tek kalan simetrik olasılık

${}^0 f_Z S_{j_s,j_i}^{DST}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız veya bağımlı-bağımsız veya bağımsız-bağımsız durumlu simetrisinin ilk ve son durumunun bulunabileceği olaylara göre tek kalan simetrik olasılık

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herhangi iki ve son durumuna bağlı tek kalan simetrik olasılık

$fz \overset{DSSST}{S}_{j_i}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin son durumunun bulunabileceği olaylara göre tek kalan düzgün simetrik olasılık

$fz \overset{DSSST}{S}_{j_i,0}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre tek kalan düzgün simetrik olasılık

$fz \overset{DSSST}{S}_{j_i,D}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin son durumunun bulunabileceği olaylara göre tek kalan düzgün simetrik olasılık

${}^0 \overset{DSSST}{fz \Rightarrow} j_i$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız veya bağımlı-bağımsız durumlu simetrisinin son durumunun bulunabileceği olaylara göre tek kalan düzgün simetrik olasılık

${}^0 \overset{DSSST}{fz \Rightarrow} j_i,0$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız veya bağımlı-bağımsız durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre tek kalan düzgün simetrik olasılık

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bağımlı simetrisinin herhangi iki durumuna bağlı tek kalan düzgün simetrik olasılık

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bulunabileceği olaylara göre tek kalan düzgün simetrik olasılık

${}^0S_{j_s, j_{ik}, j_i, 0}^{DSST}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız veya bağımlı-bağımsız veya bağımsız-bağımsız durumlu bağımsız simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre tek kalan düzgün simetrik olasılık

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$f_z S_{j_i}^{DOST}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin son durumunun bulunabileceği olaylara göre tek kalan düzgün olmayan simetrik olasılık

$f_z S_{j_i, 0}^{DOST}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre tek kalan düzgün olmayan simetrik olasılık

$f_z S_{j_i, D}^{DOST}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin son durumunun bulunabileceği olaylara göre tek kalan düzgün olmayan simetrik olasılık

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$f_z S_{j^{sa}}^{DOST}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu

simetrisinin durumuna bağlı tek kalan düzgün olmayan simetrik olasılık

$f_Z S_{j_s^{sa},0}^{DOST}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin durumuna bağlı tek kalan düzgün olmayan simetrik olasılık

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durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre tek kalan düzgün olmayan simetrik olasılık

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E2

BAĞIMLI ve BİR BAĞIMSIZ OLASILIKLI FARKLI DİZİLİMSİZ DAĞILIMLAR

Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dizilimsiz Dağılımlar

- Simetrik Olasılık
- Toplam Düzgün Simetrik Olasılık
- Toplam Düzgün Olmayan Simetrik Olasılık
- İlk Simetrik Olasılık
- İlk Düzgün Simetrik Olasılık
- İlk Düzgün Olmayan Simetrik Olasılık
- Tek Kalan Simetrik Olasılık
- Tek Kalan Düzgün Simetrik Olasılık
- Tek Kalan Düzgün Olmayan Simetrik Olasılık
- Kalan Simetrik Olasılık
- Kalan Düzgün Simetrik Olasılık
- Kalan Düzgün Olmayan Simetrik Olasılık

bu yüğe sıralanmasıyla elde edilebilen kurallı tablolar kullanılmaktadır. Farklı dizilimsiz dağılımlarda durumların küçükten-büyüğe sıralama için verilen eşitliklerde kullanılan durum sayısının düzenlenmesiyle, büyükten-küçüğe sıralama durumlarının eşitlikleri elde edilebilir.

Farklı dizilimsiz dağılımlar, dağılımın ilk durumuyla başlayan (bunun yerine farklı dizilimsiz dağılımlarda simetriden seçilen ilk durumuyla başlayan dağılımlar), dağılımın ilk durumu hariçinde dağılımın herhangi bir durumuyla başlayan dağılımlar (bunun yerine farklı dizilimsiz dağılımlarda simetride bulunmayan bir durumuyla başlayan dağılımlar) ve dağılımın ilk durumu hariçinde ilk dağılımının başladığı farklı ikinci durumla başlayıp simetriden seçilen ilk durumuyla başlayan dağılımların sonuna kadar olan dağılımlarda (bunun yerine farklı dizilimsiz dağılımlarda simetride bulunmayan diğer durumlarla başlayan dağılımlar) simetrik, düzgün simetrik, düzgün olmayan simetrik v.d. incelenir. Bağımlı dağılımlardaki incelenen başlıklar, bağımlı ve bir bağımsız olasılıklı dağılımlarda, bağımsız durumla ve bağımlı durumla başlayan dağılımlar olarak da incelenir.

Bağımlı dağılım ve bir bağımsız olasılıklı durumla oluşturulabilen dağılımlara ve bağımlı olasılıklı dağılımların kendi olay sayısından (bağımlı olay sayısı) büyük olasılıklara (bağımsız olay sayısı) dağılımla bağımlı ve bir bağımsız olasılıklı dağılımlar elde edilir. Bağımlı dağılım farklı dizilimsiz dağılımlarda oluşturduğunda, bu dağılımlara bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlar elde edilir. Bağımlı ve bir bağımsız olasılıklı dağılımlar; bağımlı dağılımlara, bağımsız durumlar ilk durumdan dağıtılmaya başlanarak tabloları elde edilir. Bu bölümde verilen eşitlikler, bu yöntemle elde edilen kurallı tablolara göre verilmektedir. Farklı dizilimsiz dağılımlarda durumların küçükten-

Bağımlı dağılımlar; a) olasılık dağılımlardaki simetrik, (toplam) düzgün simetrik ve (toplam) düzgün olmayan simetrik b) ilk simetrik, ilk düzgün simetrik ve ilk düzgün olmayan simetrik c) tek kalan simetrik, tek kalan düzgün simetrik ve tek kalan düzgün olmayan simetrik ve d) kalan simetrik, kalan düzgün simetrik ve kalan düzgün olmayan simetrik olasılıklar olarak incelendiğinden, bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda bu başlıklarla incelenmekle birlikte, bu simetrik olasılıkların bağımsız durumla başlayan ve bağımlı durumlarıyla başlayan dağılımlara göre de tanım eşitlikleri verilmektedir.

Farklı dizilimsiz dağılımlarda simetrinin durumlarının olasılık dağılımındaki sırasına göre simetrik olasılıkları etkilediğinden, bu bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımları da etkiler. Bu nedenle bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda, simetrinin durumlarının bulunabileceği olaylara göre simetrik olasılık eşitlikleri, simetrinin durumlarının olasılık dağılımındaki sıralamalarına göre ayrı ayrı verilecektir. Bu eşitliklerin elde edilmesinde bağımlı olasılıklı farklı dizilimsiz dağılımlarda simetrinin durumlarının bulunabileceği olaylara göre çıkarılan eşitlikler kullanılmaktadır. Bu eşitlikler, bir bağımlı ve bir bağımsız olasılıklı dağılımlar için VDO ve Çift Çıkartma ile çıkarılan eşitliklerle birleştirilerek, bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımların yeni eşitlikleri elde edilecektir. Eşitlikleri adlandırılmasında bağımlı olasılıklı farklı dizilimsiz dağılımlarda kullanılan adlandırmalar kullanılacaktır. Bu adların altına simetrinin bağımlı ve bağımsız durumlarına göre ve dağılımın bağımsız veya bağımlı durumla başlamasına göre “Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı/bağımsız-bağımlı/bağımlı-bir bağımsız/bağımlı-bağımsız/bağımsız-bağımsız/bağımsız-bağımsız” kelimeleri getirilerek, simetrinin bağımlı durumlarının bulunabileceği olaylara göre bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz adları elde edilecektir. Simetriden seçilen durumların bulunabileceği olaylara göre simetrik, düzgün simetrik veya düzgün olmayan simetrik olasılık için birden fazla ad kullanılması durumunda gerekmedikçe yeni tanımlama yapılmayacaktır.

Simetrinin durumlarının bağımlı olasılık farklı dizilimsiz dağılımlardaki sırasına göre verilen eşitliklerdeki toplam sınıra sınır değerleri, simetrinin küçükten-büyükçe sıralanan dağılımlarına göre verildiğinden bu dağılımlarda da aynı sıralama kullanılmaya devam edilecektir. Bağımlı olasılıklı farklı dizilimsiz dağılımlarda olduğu gibi bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda da aynı eşitliklerde simetrinin durum sayıları düzenlenerek büyüğe-küçüğe sıralanan dağılımlar için de simetrik olasılık eşitlikleri elde edilecektir.

Bu şekilde bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlardan, bağımsız olasılıklı durumla başlayıp ilk bağımlı durumu bağımlı olasılıklı dağılımın ilk bağımlı durumuyla başlayabileceği diğer bir bağımlı durum olan ve bağımsız olasılıklı durumla başlayan dağılımın aynı ilk bağımlı durumuyla başlayan dağılımlarda, simetrinin ilk ve son durumunun bulunabileceği olaylara göre tek kalan düzgün olmayan simetrik olasılığın eşitlikleri verilmektedir.

SİMETRİDEN SEÇİLEN İKİ DURUMA GÖRE TEK KALAN DÜZGÜN OLMAYAN SİMETRİK OLASILIK

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_s) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik})) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = 0$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-1)!}{(j_s-2)! \cdot (n_i-n_{is}+1)!} \cdot \frac{(n_{is}-1)!}{(j_i-1)! \cdot (n_{is}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s+j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{\binom{D-l_i}{j_s-j_i-s+1}} \sum_{j_i=l_i+n-D}^{l_{ik}+l-j_{sa}^{ik}+1} \sum_{n_i=n}^n \sum_{n_{is}=n+k-j_s+1}^n \sum_{n_{ik}=n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}^n \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n_{ik} > D - l_i + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq l_i - n \wedge l_i - l_k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i \wedge$$

$$s \cdot \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{\binom{D-l_i}{j_s-j_i-s+1}} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=0}^{l_i-l-j_s+2} \sum_{j_s=l_i+n-D-s+1}^{l_i-l-j_s+2} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k)}^{()}$$

$$\frac{(n-l)! \cdot (n-s)!}{(n-l)! \cdot (n-s)!}$$

$$\frac{(l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D-l)}{(D+l_i-n-l_i)! \cdot (n-j_i)!}$$

- $D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s \wedge$
- $j_s + s \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 = l_s - l_k + j_{sa}^{ik} - s > 0 \wedge$
- $D \geq n < n \wedge l_s = l_k = 0$
- $j_{sa}^s \leq j_{sa}^l - 1 \wedge$
- $s \in \{j_{sa}^s, j_{sa}^l\} \wedge$
- $s \geq 2 \wedge s = j_s$

$$f_z^{SDOST}_{j_s, j_i} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{k=0}^{(l_{ik} - l_{is} - l_s + 2)} \sum_{i_s=l_i+l_s-1}^{j_s+s-1} \sum_{n_i=n+l_s}^n \sum_{(n_{is}=n+l_s+k-j_s+1)}^{(n_i-j_s+1)} \sum_{i_k=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k) \cdot \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \geq D - l + 1 \wedge$$

$$2 \leq j_s \leq l_s - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz^{S_{j_s, j_i}}{}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_{s\bar{a}}^{ik}}^{l_s+s-l}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{ik}+s-l-j_{s\bar{a}}^{ik}+1} \sum_{j_i=l_s+s-l+1}^{l_{ik}+s-l-j_{s\bar{a}}^{ik}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(\cdot)} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n} \sum_{n_i=n+1}^{(n-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}}^{(n_{ik}+j_s+1-j_i-j_{sa}^{ik})} \frac{(n_i - l)!}{(n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$
 $2 \leq j_s \leq j_i - s + 1$
 $j_s - s - 1 \leq j_i \leq n \wedge$
 $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{ik} + j_{sa}^{ik} - l_{ik} \wedge$
 $D \geq n < n \wedge l = \mathbb{k} = 0$
 $j_{sa}^s \leq j_{sa}^{i-1}$
 $s: (j_{sa}^s, j_{sa}^i)$
 $s \geq 2 \wedge s = s \Rightarrow$

$$f_z^S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s - l + 1)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=0}^{(j_s-1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{s\bar{a}}^{k+1}} \\
& \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{(n-j_s+1)}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)} \sum_{(n_{is}=n+k-j_s)}^{(n_i-j_s+1)}$$

$$\frac{(n-s)!}{(n-l)! \cdot (s)!} \cdot \frac{(l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(D-l)}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_{j_s, j_i}^{DOST} = & \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{n} \\
 & \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)} \\
 & \frac{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \\
 & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \\
 & \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \\
 & \frac{(l_s-l_s+1)!}{(j_s+l_s-l-1)! \cdot (j_i-j_s-s+1)!} \\
 & \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{n} \\
 & \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)} \\
 & \frac{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \\
 & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \\
 & \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-}^{l_s+s-l}$$

$$\sum_{n_i=n}^n \sum_{(j_s+1)}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+}^{()} \sum_{(n_{ik}+j_s)}^{()} \sum_{(j_i-j_s-k)}^{()} \frac{(n_i)!}{(n-l)! \cdot (n-s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s + j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{j_i=n-D}^{l_i-l+1} \sum_{n_i=n-j_s+1}^{n_i} \sum_{n_s=n-j_i+1}^{n_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s - l)} \sum_{(j_s = l_i, \dots, D - s + 1)}^{(n - j_s + 1)} \sum_{n_i = n + k}^n \sum_{(n_s = n + k, \dots, n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_i = n_s + j_{sa}^s - j_{sa}^{lk}, \dots, n_{ik} + j_s + j_{sa}^{lk} - j_i - j_{sa}^{-lk})}^{(n_i - s - l)} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge 2 \leq j_s \leq j_i - s \wedge j_s + s \leq j_i \leq n \wedge (n - j_{sa}^{lk} - 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \vee (D \geq n < n \wedge l_s > D - n + 1 \wedge D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge 2 \leq j_s \leq j_i - s \wedge j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDO} = \sum_{l=l}^{(l_s-l+1)} \sum_{j_i=j_i+n-D}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i - s - 1)!}{(n_i - n - \mathbb{k})! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - 1)! \cdot (n - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} + j_{sa} - s > 0 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)}^{(j_i - s + 1)} \sum_{j_i = l_i + n - D}^{l_{sa} + s - l - j_{sa} + 1}$$

$$\sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{j_i=l_{sa}+s-j_{sa}+2}^{n-(n_i-j_s+1)-j_i} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n_i+1)}^{(n_i-j_s+1)-j_i} \sum_{n_s=n-j_i+1}^{n_{is}-1)!} \\
 & \frac{(j_s - 1)! \cdot (n_i - j_s + 1)!}{(n_i - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - j_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^{(n_i-j_s+1)} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}
 \end{aligned}$$

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$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz^{OST} = \sum_{k=l}^{n-D-s} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_i-j_s+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (n - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \\
& \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_i-j_s+1} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^n \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{-lk})}^{(n_i-j_s+1)} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D}^{l_i-l+1} \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{j_s+l-1} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(D - l)!}{(D + j_i - n - l)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} \wedge l_i + j_s - s = l_s \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\sum_{k=l}^{j_i-s+1} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} f z S_{j_s}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\begin{aligned}
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = l_{ik} + s - l - j_{sa}^{ik} + 1}^{s + j_s - j_i} \\
 & \sum_{n_i = n}^n \sum_{(n_{is} = n - j_s)}^{(n_i - j_s + 1)} \sum_{(n_s = n - j_s - j_i + 1)}^{(n_i - j_s + 1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(n_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - j_s - 1)!}{(n_{is} + j_s - s - j_i)!} \cdot \\
 & \frac{(n_i + j_i - n - 1)! \cdot (n - j_i)!}{(n_i - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{()} \sum_{(j_s = j_i - s + 1)}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}^{(n_i - j_s + 1)} \\
 & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \\
 & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{()} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}
 \end{aligned}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} \sum_{k=0}^{(l_{sa} + j_{sa} - j_s)} \sum_{j_i = l_{ik} + n - D - k + 1}^{(l_{sa} + j_{sa} - j_s)} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}^{(l_{sa} + j_{sa} - j_s + 1)}$$

$$\sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
& \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-l-j_{sa}^{lk}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - j_s - l + 1)!}{(j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-l-j_{sa}^{lk}+2)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-k)}^{(\quad)} \\
& \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{j_s=l_{ik}+n-D-j_{sa}+1}^{j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{n-l-s-l-j_{sa}+1} \frac{(n_i - n_{is} - 1)!}{(i - l - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1} \sum_{j_i=j_s+s-1}^n \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(D - l)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$((D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa})) \wedge$

$D \geq n < n \wedge k = k =$

$j_s^s \leq j_{sa}^s - 1 \wedge$

$s: \{j_{sa}^s, j_{sa}^i\}$

$s \leq l \wedge S = s \Rightarrow$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=0}^{(l_s-l+1)} \sum_{j_i=l_s+n-D}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s+s-l+1}^{l_{sa}+s-l-j_{sa}+1} \\
& \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\sum_{k=l} \sum_{\binom{()}{j_s=j_i-s+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

$$\sum_{n_i=n+k}^n \sum_{\binom{()}{n_i=n+k-j_s+1}}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k}}^{(n_s-j_s+1)}$$

$$\frac{(n-s-1)!}{(n-l)! \cdot (s-1)!}$$

$$\frac{(l-1)!}{(i-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D)}{(D+j_s-n-l)! \cdot (n-j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_Z^{\mathcal{S}_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i + l_j - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{(l_s-l-1)}$$

$$\sum_{n_i=n}^n \sum_{(j_s+1)}^{(j_s+1)} \sum_{(n+l-j_s+1)}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+1}^{(j_s+1)} \sum_{(n_{ik}+j_s-k-j_i-j_{sa}^k)}^{(j_s+1)}$$

$$(n_i)!$$

$$(n-l)! \cdot (n-s)!$$

$$(l_s-l-1)!$$

$$(l_s-l-1)! \cdot (j_s-l+1)! \cdot (j_s-2)!$$

$$(D - l_i)!$$

$$(D + j_i - n - l_i)! \cdot (n - j_i)!$$

$$((D \geq n < n \wedge l_s > D - n + 1$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1$$

$$2 \leq j_s \leq j_i - 1$$

$$j_s + s \leq j_i \leq n \wedge$$

$$(l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(l_s-l-1)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_s+n-D} \sum_{j_i=j_s+s-1}^{l_{sa}+s-1} \sum_{n_i=n}^{(n_i-n-j_s+1)} \sum_{n_{is}=n+k-j_s+1}^{n+s-D-j_{sa}} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s-l-1)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_s+n-D} \sum_{j_i=j_s+s-1}^{l_{sa}+s-1} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-k}} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(D - l_s)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s =$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1) l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{(j_s=2)} \sum_{j_i=s+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l-l+1} \sum_{j_i=l_{ik}+s-j_{sa}^{ik}+2}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n_{is}+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=s+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

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$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i - l_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_z S_{j_s, j_i}^{D, s} = \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_i - l + 1} \sum_{j_i=j_s+s-1}^{l_i - l + 1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \frac{\binom{n_i-j_s+1}{n_{is}=n+k-j_s+1}}{\binom{n-s-l}{n-s-l}} \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(l_i - l)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq n - 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - j_{sa}^{ik} + 1 = l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + 1 - n + 1 \wedge$$

$$D \geq n < n \wedge l = k = 1 \wedge$$

$$j_{sa}^s \leq j_{sa}^i \wedge$$

$$s: \{1, 2, \dots\} \wedge$$

$$s \geq 2 \wedge s = \dots \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_i+n-D} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - j_{s\bar{a}}^{ik} + 2)} \sum_{(j_s=2)} \sum_{i=l_{ik}+s-l-j_{s\bar{a}}^{ik}+2}$$

$$\sum_{n_i=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{ik}+s-l-j_{s\bar{a}}^{ik}+1}$$

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$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i - s - l)!}{(n_i - n - l) \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s \in \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\begin{aligned}
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{ik} - l - j_s^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)}^{j_i = j_s + 1} \sum_{n_i = n - j_s + 1}^{n_{is} + j_s - j_i} \sum_{n_{is} = n - j_s + 1}^{n_{is} + j_s - j_i} \\
 & \frac{(n_i - j_s - 1)! \cdot (n_{is} + j_s - j_i - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_s - n_s - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{ik} - l - j_s^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)}^{j_i = j_s + s - 1} \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)}
 \end{aligned}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(D - l)!}{(D + j_i - n - l)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = \Rightarrow$$

$$f_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)}^{j_i - l_s + s - 1} \sum_{n_i = n - l_s + k - j_s + 1}^n \sum_{n_{is} = n + k - j_s + 1}^{(n_s + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)} \frac{(l_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l \leq D - n + 1 \wedge$

$1 \leq i_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} - j_{sa}^{ik} - s = l_{ik} \wedge$

$D - l_s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$

$j_{sa}^s = j_{sa}^i - 1 \wedge$

$s: \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_s^{ik}}^{l_s+s-l} \\
&\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_s^{ik}+1} \sum_{j_i=l_s+s-l+1}^{l_{ik}+s-l-j_s^{ik}+1} \\
&\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(\cdot)} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n} \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{(n_{is}=n+k-j_s+1)}^{(n_{is}+j_s-j_i)} \frac{(n_{ik}+j_s+j_{sa}^{ik}-j_i-k)!}{(n_{ik}+j_s+j_{sa}^{ik}-j_i-k)! \cdot (n-s)!} \cdot \frac{(l_s-l)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \frac{(l_i-l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq n - 1$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + j_s \geq l_s \wedge l_{ik} - j_{sa}^{ik} - s = l_{ik} \wedge$

$D + s - n < l_i \leq D + l_s + n - 1 \wedge$

$D \geq l_i < n \wedge l = k = 1 \wedge$

$j_{sa}^s \leq j_{sa}^i \wedge$

$s: \{1, 2, \dots\} \wedge$

$s \geq 2 \wedge s = \dots \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_{ik}+n-D-j_s^{ik}+1}^{j_s^{ik}+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i} \\
& \sum_{n(n_{is}=n-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_i-j_s+1)} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_{ik}+n-D-j_s^{ik}+1}^{j_s^{ik}+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i}
\end{aligned}$$

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$$\sum_{n_i=n+l_k}^n \sum_{(n_i=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i - s - l)!}{(n_i - n - l) \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$

$D + l_s + s - n - l_i + 1 \leq l \leq i - 1$

$1 \leq j_s \leq j_i - s$

$j_s + s \leq j_i \leq n$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}$

$D + s - n < l_i \leq D + l_s + s - n - 1$

$D \geq n < n \wedge l = 0$

$j_s^s \leq j_{sa}^s$

$s: \{j_s^s, j_{sa}^s\}$

$s \geq 2, s = s \Rightarrow$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}$$

$$\sum_{n_i=n}^n \sum_{(n_i=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!}$$

$$\sum_{k=l}^{l_s-l} \sum_{n_{ik}+n_{js}+n_{is}=j_s+s-1}$$

$$\sum_{n_i=n+l}^n \sum_{(n_{is}=n+l-k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{\binom{()}{ik=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-k)}$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_i + s - j_s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \vee$$

$$D \geq n < n \wedge l = k = l \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s\} \wedge$$

$$s \geq 2 \wedge s = \dots \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\begin{aligned}
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} + \\
& \sum_{k=1}^{(l_i-l+1)} \sum_{j_s=j_i-k}^{l_i-l+1} \sum_{n_{is}=n_s-k}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i=s+1}^{l_s+s-l} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}
\end{aligned}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()}^{()} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_i \leq D + j_{sa}^{ik} - n) \vee$$

$$(D < n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=2}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n}^n \sum_{n_s=n-k}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_i-j_s+1)} \frac{(n_i - n_s)!}{(j_s - 1)! \cdot (n_i - n_s + 1)!} \cdot \frac{(n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_s + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=2}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n+k}^n \sum_{n_s=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}^{()}$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1)$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_{zS}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_i+n}^{l_s+s-l} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i+l-n-D}^{l_s+s-l} \sum_{n_i=n}^n \sum_{(n_i=n+k-j_s+1)}^{()} \sum_{(n_{ik}=n_{is}-j_{sa}^{ik} - j_{sa}^{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{ik})}^{()} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$(D \geq n < n) \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq i \leq j_i - s + 1 \wedge$

$i + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$D + l_s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n) \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$

$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1))$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\ \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\ \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\ \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\ \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{iS}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{s=n-j_i+1}^{n_{iS}+j_s}$$

$$\frac{(n_i - n_{iS} - 1)!}{(j_s - 2)! \cdot (n_{iS} - 1)!} \cdot$$

$$\frac{(n_{iS} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_i - j_i - n - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(n - l - 1)!}{(n - j_s - 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - 1)! \cdot (l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{iS}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{iS}+j_{Sa}^s-j_{Sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{Sa}^{ik}-j_i-j_{Sa}^s-k)}^{()}$$

$$\frac{(n_i - s - 1)!}{(n_i - n - 1)! \cdot (n - s)!} \cdot$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$

$j_{sa}^s \leq j_{sa}^i - 1 \wedge$

$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$

$$f_{zS}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+} \sum_{=l_i+n-D}^{l_i-l+}$$

$$\sum_{n_i=n}^n \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n+l_k+1}^{n+l_k+1}$$

$$\frac{(n_i - \dots - 1)!}{(n_i - \dots - j_s + 1)!}$$

$$\frac{\dots - n_s - 1}{(j_i - \dots - 1)! \cdot (j_s + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{-lk})}^{()}$$

$$\frac{(n_i - s - I)!}{(n_i - n - I)! \cdot (n - s)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{POST} = \sum_{k=l}^{(j_i-s+1) l_{sa}+s-l-j_{sa}+1} \sum_{(j_s=2)} \sum_{j_i=l_i+n-D} \\ \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\ \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\ \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \\ \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\ \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\ \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \\ \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{n_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l + 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^{()} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{-lk})}^{()} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s}^D \sum_{k=l}^{(l_i - D - s)} \sum_{l_i - l + 1}^{l_i - l + 1} \sum_{l_i + n - D}^{l_i + n - D} \sum_{n}^{(n_i - j_s + 1)} \sum_{n_{is} + j_s - j_i}^{n_{is} + j_s - j_i} \sum_{n_i = n - j_s + 1}^{n_i = n - j_s + 1} \sum_{n_s = n - j_i + 1}^{n_s = n - j_i + 1} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{sa} - l - j_{sa} + 2)} \sum_{(j_s = l_i + n - D - s + 1)}^{l_i - l + 1} \sum_{j_i = j_s + s - 1}^{l_i - l + 1}$$

$$\sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_s - 1)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=0}^{l_{sa} - l - j_{sa}} \sum_{j_s = l_i + k}^{n - s + 1} \sum_{j_i = j_s + s - 1}^n \\
& \sum_{n_i = n + lk}^n \sum_{(n_{is} = n + lk - j_s + 1)}^{(n_i - j_s + 1)} \\
& \sum_{k = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - lk)}^{(n_i - s - l)!} \\
& \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l \wedge l_s \leq D - n + 1 \wedge$$

$$D - s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_{z^D}^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=l+n-D}^{l_i-l+1} \sum_{n=n}^n \frac{(n_i-j_s+1) \dots (n_i-j_i)}{(n_{is}=n+1) \dots (n_s=n-j_i+1)} \cdot \frac{(n_i-j_s+1)!}{(j_s-1)! \cdot (n_i-n_{is}+1)!} \cdot \frac{(n_{is}-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n+1+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=l_i+n-D-s+1}^{j_i=j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^l}^{(n_s=n_{ik}+j_s+j_{sa}^l-j_i-j_{sa}^l-k)}$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_i}^{OST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = l_{ik} + s - l - j_{sa}^{ik} + 2}^{n_{is} + j_s} \\
& \sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_i - j_s + 1)}^{n_{is} + j_s} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - j_s - n_s - j_i)} \cdot \\
& \frac{(n_s - n_i - n - 1)!}{(n_s - n_i - n - 1)! \cdot (l - j_i)!} \cdot \\
& \frac{(l - l - 1)!}{(l - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s + 1)!}{(j_s - l - l_s)! \cdot (j_i - j_s - s + 1)!} \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=l}^{()} \sum_{(j_s = j_i - s + 1)}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}} \\
& \sum_{n_i = n + l_k}^n \sum_{(n_{is} = n + l_k - j_s + 1)}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - l_k)}^{()} \\
& \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_z^{POST} = \sum_{k=l}^{n-D-j_s} \sum_{j_s=1}^{n-D-j_s} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_s-1)!}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_s+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \\
 & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{lk}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(n_i-1)} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{()}$$

$$\frac{(n_i - s - 1)!}{(n_i - n - k)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l = k \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s + j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_s - l - s + 1)!}{(j_s + j_i - l - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s+s-l+1}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_s}^{l_s+s-l} \sum_{n_i=n}^n \sum_{n_{ik}=n_{is}+j_s}^{(n_{ik}+j_s)} \frac{(n_i)!}{(n-l)! \cdot (n-s)!} \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa}+1)} \sum_{l=2}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{n_{is}=n-j_s+1}^{(n_{is}+j_s-j_i)} \sum_{n_s=n-j_i+1}^{(n_s-n-j_i+1)} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l-1)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n_i+j_s-j_i} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{n_{is}=n-j_s+1}^{(n_{is}+j_s-j_i)} \sum_{n_s=n-j_i+1}^{(n_s-n-j_i+1)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{l_s - l - 1} \sum_{j_i = l_{sa} + n_{is} + j_s + k}^{j_i = l_{sa} + n_{is} + j_s + k} \sum_{j_i = j_s + s - 1}^{j_i = j_s + s - 1} \sum_{n_i = n + lk}^n \sum_{(n_{is} = n + lk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{k = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - lk)} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n - l) \wedge l \neq i) \wedge l_s \leq D - n + 1 \wedge$$

$$D + j_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s - 2 \wedge s = \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{j_s+s-1} \sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_{is}=n+k-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}=n_{is}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l \wedge l = l \wedge l \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa} = l_s \wedge l_i - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D - l_i - 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n - l \wedge l = k = 0 \wedge$$

$$j_{sa} = j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=i}^{\binom{D}{i}} \sum_{(j_s=1)}^{l_{ik}+s-i} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-i-j_{sa}^{ik}+1} \sum_{n_i=n}^n \sum_{(n_s=n-j_i)}^{(n_i-j_i+1)} \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_i + l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(l_i - j_i - l_s + 1)!}{(D - l_i - n - l_j) \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n - 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_{77}^{SD} = \sum_{k=1}^n \sum_{i=l}^{\binom{()}{j_s=1}} \sum_{j_i=s}^{l_i - i^{l+1}}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$\sum_{k=1}^n \sum_{i=l}^{\binom{()}{j_s=1}} \sum_{j_i=s}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\binom{()}{n_{ik}=n_i-j_s-j_{sa}^{ik}}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-\mathbb{k}}$$

$$\frac{(n_i - s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n - s)!}$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_i \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_i \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$S_{j_s, j_i}^{DO} \sum_{l=1}^{i-l+1} \sum_{j_i=l_i+n-D}^{i-l+1} \sum_{n_i=n}^n \sum_{n_s=n-j_i+1}^{n_i-j_i+1} \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$j_{sa}^{DOST} = \sum_{k=l}^{()} \sum_{j_s=1}^{l_{sa}+s-} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{i^{l-j_{sa}+1}}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i > D + l_{ik} + s - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{sa} > D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_{sa} \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i > D + l_{sa} + s - j_{sa} - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_{sa} \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i > D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{j_i=1}^{(l_s-l+1)} \sum_{j_s=2}^{l+1} \sum_{j_i=1}^{(n_i-l+1)} \sum_{j_s=1}^{n_{is}+j_s-j_i} \frac{(n_{is}-n_{is}-1)!}{(j_s-2)! \cdot (n_{is}-j_s+1)!} \cdot \frac{(n_s-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$((D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_{sa}^s \wedge$$

$$j_{sa}^s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i > D + l_{ik} + s - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_s \wedge$$

$$l_{sa} > D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_s \wedge$$

$$l_i > D + l_{sa} + s - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i > D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge \mathbf{s} = \mathbf{s} \Rightarrow$$

$$\begin{aligned}
 f_{zS}^{DOSI} = & \sum_{k=l} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_s - l_s - s + 1)!}{(j_s + j_i - l - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i > D + l_{ik} + s - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{sa} > D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i > D + l_{sa} + s - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i > D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOS} = \sum_{k=l}^{j_i} \sum_{j_s=1}^{j_i-k} \sum_{j_i=l_i+n-D}^{l_i-l_i+1}$$

$$\sum_{n_i=n}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i > D + l_{ik} + s - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{sa} > D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i > D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i > D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=i}^l \sum_{(j_s=1)}^{()} \sum_{l_i - l_i +}^{()} \sum_{n_i=n}^{(n_i=j_i+1)} \frac{(n_i - j_i - 1)!}{(n_i - l_i - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \geq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l = i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik})) \wedge$$

$$D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$f_z^{S_{j_i}^{DOST}} = 0$$

$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{j_s = l_{ik} + n - D - j_{sa}^{ik} + 1}^{l - l + 1} \sum_{i_i = l_{ik} + s - j_{sa}^{ik} + 2}^{i_i - l_k} \\
 & \sum_{n_i = n + l_k}^n \sum_{(n_{is} = n + l_k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{i_i - l_k} \\
 & \frac{(n_i - j_s + 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{()} \sum_{j_s = j_i - s + 1}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{j_i = l_i + n - D}^{()} \\
 & \sum_{n_i = n + l_k}^n \sum_{(n_{is} = n + l_k - j_s + 1)}^{(n_i - j_s + 1)} \\
 & \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{ik} - l_k)}^{()}
 \end{aligned}$$

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$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s}^{D_s} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)}^{l_i - l + 1} \sum_{j_i = j_s + s - 1} \\
& \sum_{n_i = n + l_k}^n \sum_{(n_{is} = n + l_k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{= n - j_i + 1}^{n_{is} + j_s -} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - n_i - n - 1)!}{(n_s - n_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(n_i - n_{is} - 1)!}{(n_i - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s - l - 1)! \cdot (l_s)! \cdot (j_i - j_s - s + 1)!} \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1} \\
& \sum_{n_i = n + l_k}^n \sum_{(n_{is} = n + l_k - j_s + 1)}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_i - s - l)!} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - l_k)}^{(n_i - n - l)! \cdot (n - s)!} \\
& \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_{z^s}^{S_{j_s}} = \sum_{l=l}^{l_i - j_{sa}^{ik} + 2} \sum_{j_i = l_i + n - D - j_{sa}^{ik} + 1}^{l_i - l + 1} \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k)}^{()}$$

$$\frac{(j_s-1)!}{(n-l)! \cdot (j_s-s)!} \cdot \frac{(l_s-l-1)!}{(j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(D-l)}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge$

$D \geq n < n \wedge l = l_s \geq 0 \wedge$

$j_s = j_{sa}^i - 1$

$s: \{l_s, l_k, j_{sa}^i\} \wedge$

$l_s = 2 \wedge l_k = s + l_k \wedge$

$l_{k_z}: z = 1 \Rightarrow$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} + \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \sum_{k=0}^{l_s - l} \sum_{j_s = l_s + k}^{n - (j_s + 1)} \sum_{n_i = n + k}^{n - j_s + 1} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{()} \sum_{j_s = j_i - s + 1}^{l_s + s - l} \sum_{n_i = n + k}^{n - j_s + 1} \sum_{n_{is} = n + k - j_s + 1}^{n_{is} + j_s - j_i - k}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()}^{()} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(D - l)!}{(D + j_i - n - l)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$j_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{(j_s=l_s+n-D)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}+n-l-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{n-j_s+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{n-j_s+1} \sum_{n_s=n-j_i+1}^{n_i-k}$$

$$\frac{(n_i - j_s + 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - j_s + 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}+n-l-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{n-j_s+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

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$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - \dots)}$$

$$\begin{aligned} & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \end{aligned}$$

$$\begin{aligned} & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \end{aligned}$$

$$\begin{aligned} & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \end{aligned}$$

$$\begin{aligned} & D \geq n < n \wedge l_s \geq 0 \wedge \\ & j_{sa}^s = j_{sa} - 1 \wedge \\ & s: \{j_{sa}^s, l_k, j_{sa}^s\} \\ & s = n - l_k = s + l_k \wedge \end{aligned}$$

$$l_{k_z}: z = 1 =$$

$$\begin{aligned} f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i - s + 1)} \sum_{(j_s = l_s + n - D)}^{l_s + s - l} \sum_{j_i = l_i + n - D} \\ & \sum_{n_i = n + l_k}^n \sum_{(n_{is} = n + l_k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - l_k} \end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{l_s-l} \sum_{(j_s=n-D)}^{n-D} \sum_{j_i=l_s+s-l+1}^{l_s+l+1}$$

$$\sum_{n+l_s}^n \sum_{n+l_s-k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-l}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i - s - 1)!}{(n_i - n - \mathbb{k})! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
&\frac{(n_{i_s} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
&\frac{(n_{i_s} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i = n + k}^n \sum_{(n_i - k - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_{ik} + j_s + j_{sa}^{ik} - k)}$$

$$\frac{(n - n_{ik} - k - s - l)!}{(n - n_{ik} - k)! \cdot (n - s)!}$$

$$\frac{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \wedge n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_i + j_{sa}^{ik} - s \geq k) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \wedge n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{SDOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{1} \sum_{j_i=l_i+n-D}^{1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{(j_s-j_i-k)} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{1} \sum_{j_i=j_s+s-1}^{1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-lk}} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(D - l)!}{(D + j_i - n - l)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} \wedge l_i + j_s - s > l_s \wedge$$

$$D \geq n < n \wedge l = lk \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, lk, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + lk \wedge$$

$$lk_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{\binom{(j_i-s+1)}{j_s=l_{sa}+n-D-j_{sa}+1}} \sum_{\binom{l_{sa}+s-l-j_{sa}+1}{j_i=l_i+n-D}} \sum_{\binom{n}{n_i=n+lk}} \sum_{\binom{(n_i-j_s+1)}{n_{is}=n+lk-j_s+1}} \sum_{\binom{n_{is}+j_s-j_i-lk}{n_s=n-j_i+1}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\begin{aligned}
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=l_{sa}+s-l-j_{sa}+1}^{l_i-l+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{j_i+1}^{n_s=j_i+k}^{+j_s-j_i-k} \\
 & \frac{(n_i - j_s + 1)! \cdot (n_s - j_i - k)!}{(j_s - 2)! \cdot (n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - j_s - 1)!}{(n_{is} + j_s - 1)! \cdot (n_{is} - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(D + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_i - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}
 \end{aligned}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\sum_{i_s, j_i}^{DOS} \sum_{n_i = l_{sa} + n - D - j_{sa} + 1}^{n - D - s} \sum_{j_i = l_i + n - D}^{l_i - l + 1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-l_k)}^{(\quad)} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz = \sum_{j_s, j_i}^{DOS} \sum_{l=(j_s=l_{sa}-(l_{sa}+2))}^{(l_i-l+1)} \sum_{j_i=l_i+n-D}^{(j_i=l_i+n-D)} \sum_{n_i=n+\mathbb{k}}^{(n_i=j_s)} \sum_{n_i=n+\mathbb{k}-j_s+1}^{(n_i=j_s)} \sum_{n_s=n-j_i+1}^{(n_s=j_s-j_i-\mathbb{k})} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_{sa} + j_{sa} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{SDOST} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{(j_i=l_{sa}+n+s-D-j_{sa})}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\begin{aligned}
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{j_s = l_{ik} + n - D - j_{sa}^{lk}}^{l_{ik} + s - l - j_{sa}^{lk} + 1} \sum_{j_i = l_{ik} + s - l - j_{sa}^{lk}}^{n_i - j_s + 1} \sum_{n_i = n + lk}^{(n_i - j_s + 1)} \sum_{n_{is} = n + lk - j_s + 1}^{n_{is} + j_s - j_i - lk} \sum_{n_{is} = n + lk - j_s + 1}^{n_{is} - j_i + 1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(j_s - n_s - 1)!}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{j_s = j_i - s + 1}^{l_{ik} + s - l - j_{sa}^{lk} + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}^{(n_i - j_s + 1)} \\
 & \sum_{n_i = n + lk}^n \sum_{n_{is} = n + lk - j_s + 1}^{(n_i - j_s + 1)}
 \end{aligned}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-lk}} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(D - l)!}{(D + j_i - n - l)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} \wedge l_i + j_s - s = l_s \wedge$$

$$D \geq n < n \wedge l = lk \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, lk, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + lk \wedge$$

$$lk_z: z = 1 \Rightarrow$$

$$f_z^{SDOST} = \sum_{k=l} \sum_{\binom{(l_{sa}+n-D-j_{sa})}{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}} \sum_{\binom{l_{sa}+s-l-j_{sa}+1}{j_i=l_{sa}+n+s-D-j_{sa}}}$$

$$\sum_{n_i=n+lk}^n \sum_{\binom{(n_i-j_s+1)}{n_{is}=n+lk-j_s+1}} \sum_{\binom{n_{is}+j_s-j_i-lk}{n_s=n-j_i+1}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - D - j_s + 1)}^{l_{sa} + n - l - j_{sa} + 1} \sum_{j_i = j_s - 1}^{j_s - 1} \\
 & \sum_{n_i = n + l_k}^n \sum_{(n_{is} = n + l_k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{j_i - l_k} \\
 & \frac{(n_i - j_s)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - j_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_i - j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)}^{l_{sa} + n - l - j_{sa} + 1} \sum_{j_i = j_s + s - 1}^{j_s + s - 1} \\
 & \sum_{n_i = n + l_k}^n \sum_{(n_{is} = n + l_k - j_s + 1)}^{(n_i - j_s + 1)} \\
 & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - l_k)} \sum_{(n_i - j_s + 1)}^{(n_i - j_s + 1)}
 \end{aligned}$$

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$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_{z^s}^{S_{j_s}^{ST}} = \sum_{k=l}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = n + j_s + 1}^{(n - j_s + 1)} \sum_{(n_i = n + j_s + 1 - j_i - j_{sa}^{ik})}^{(n - j_s + 1)} \frac{(n_i - l)!}{(n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$((D \geq n < n \wedge l_s > D - n + 1$

$2 \leq j_s \leq j_i - s + 1$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n)}^{l_s+s} \sum_{(j_i=l_{sa}+n+s-l)}^{l_s+s} \frac{(n_i-j_s+1)}{n_i=n+k} \frac{(n_{is}+j_s-j_i-k)}{n_{is}=n+k-j_s} \sum_{(j_i+1)}^{(j_i+1)} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \frac{(j_s-n_s-1)!}{(j_s-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{(j_i=l_s+s-l+1)}^{(n_i-j_s+1)} \frac{(n_i-j_s+1)}{n_i=n+k} \frac{(n_{is}+j_s-j_i-k)}{n_{is}=n+k-j_s+1} \sum_{(n_s=n-j_i+1)}^{(n_i-n_{is}-1)!} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{k=l_i}^{()} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{l_s+s-l} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k}^{l_{sa}-D-j_{sa}} \sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{()} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_{i_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-j_{sa})} \sum_{(j_s=n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i}^{l_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}$$

$$\begin{aligned}
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l - l_s - s - 1)!}{(j_s + l_i - l_s - l - s + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{i=1}^{(l_s-l-1)} \sum_{(j_s+n-l-j_s+1)}^{(n-l-j_s+1)} \sum_{j_i=j_s+s-1}^{(n-l-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(n_i-j_s+1)} \\
& \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + 1 \wedge$$

$$\mathbb{k}: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{j_s+s-1} \sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_{is}=n+k-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}=n_{is}+j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \sum_{(n_{ik}=n_{is}+j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(n_{ik}=n_{is}+j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}$$

$$\frac{(n_i - n - l)! \cdot (n - s)!}{(l_s - l - 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n, l \neq i \wedge l \leq D - n + 1$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + j_s + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq n - n \wedge$

$D \geq n < n, l = k \geq 0 \wedge$

$j_{sa}^{s-1} - 1 \wedge$

$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$

$s = 2 \wedge s = s + k \wedge$

$k_z: z = 1 \Rightarrow$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_s a+1}} \sum_{j_i=s+1}^{j_i-s+1} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{n_{is}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_{ik-l-j_s a+2})} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_{ik+s-l-j_s a+2}}^{l_i-l+1} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i+l_k)}^{()}$$

$$\frac{(l_s - s - l)!}{(n - s)! \cdot (n - s)!}$$

$$\frac{(l_s - l)!}{(l_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_i \leq n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq j_s \wedge$$

$$l_{ik} - j_{sa}^{ik} + l_{sa}^{ik} = l_s \wedge l_{ik} - j_{sa}^{ik} - s > l_{ik}$$

$$D \geq n < n \wedge l = i \geq 0 \wedge$$

$$j_{sa}^s = j_s - 1 \wedge$$

$$s: \{j_{sa}^s, l_k, j_{sa}^s\} \wedge$$

$$s = j_s = s + l_k \wedge$$

$$l_{k_z}: z = 1 =$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=2)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D - n - 1)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_s)} \sum_{j_i=j_s+s-1}^{(j_s-2)} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{k=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{()} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l \neq i, l \wedge l_s \leq D - n + 1 \wedge$$

$$l_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1) l_{ik} - l - j_{sa}^{ik} + 1} \sum_{j_i=l_{ik} - l - D}^{(j_i-s+1) l_{ik} - l - j_{sa}^{ik} + 1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + j_s + 1)!} \cdot \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(j_i + j_s - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_i - l + 1} \sum_{j_i=l_{ik} + s - l - j_{sa}^{ik} + 2}^{l_i - l + 1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(n - l_{ik} + s - j_{sa}^{ik} + 1)} \sum_{j_i=l_i+n-k}^{(n - j_s + 1)} \sum_{n_i=n+k}^n \sum_{j_s=j_s+1}^{(n_i - j_s + 1)} \sum_{\substack{k=n_{is}+j_{sa}^s - j_{sa}^{ik} \\ s=n_{ik}+j_s+j_{sa}^{ik} - j_i - j_{sa}^s - k}}^{()}$$

$$D \geq n < n \wedge l \neq i, l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_s + 1 \wedge$$

$$j_s + 1 \leq j_i - 1 \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_s + 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_s - l_s - s + 1)!}{(j_s + l_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_{ik}-l-j_{s\bar{a}}^{\mathbb{k}}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{j_s = l_i + n - D - s + 1}^{(j_s + 1)} \sum_{j_i = j_s - s + 1}^{(j_i + 1)} \frac{(n_i - l)!}{(n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - i + 1 \wedge$$

$$D + s - n - l_i - 1 \leq l \leq i - 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} - 1 = l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i - l_s + s - n - 1 \wedge$$

$$D \geq n < i - 1 = k \geq 0 \wedge$$

$$s = j_i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z^{SDOST}_{j_s, j_i} &= \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n_i-l+1} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 &\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{(n_i-j_s+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 &\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_i-j_s+1)} \\
 &\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz^{S_{j_s}^{NST}} = \sum_{k=l}^{n-j_s} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n-j_s-1} \sum_{n_i=n+k}^n \sum_{n_s=n-k-j_s+1}^{(n_i-j_s-k)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-l+1}^{j_i=l_s+s-l+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l - l_s - s - 1)!}{(j_s + l_i - l_s - l - s + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(i - j_s - s + 1)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-l} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(i - j_s - s + 1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(j_s - s - 1)} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{(j_s=2)}^{l_{ik}+s-1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s-j_i-k)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{l_s - l + 1} \sum_{j_i = j_s + s - 1}^{n_{is} + j_s - l_{ik} + 1} \sum_{n_i = n + l_k}^n \sum_{(n_{is} = n + l_k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{k = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - l_k)}^{()} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D - s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{j_i=l_{ik}+n+s}^{l_{ik}+s-l_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s}^{l_{ik}+s-l_{sa}^{ik}+1} \frac{(n_i-j_s)!}{(j_s-2)! \cdot (n_{is}-j_s+1)!} \cdot \frac{(n_{is}+j_s-j_i-1)!}{(n_s-n_s-1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \cdot \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{j_i=j_s+s-1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^l-\mathbb{k})}$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz^S_{j_s, j_i}^{DOST} = \sum_{k=0}^{(j_i - j_s - l)} \sum_{(j_s=2)}^{j_i - s - l} \sum_{j_i = s + 1}^{j_i - s - l} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s=2)}^{l_i - l + 1} \sum_{j_i = l_s + s - l + 1}^{l_i - l + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=0}^{l_s+s-l} \sum_{i=j_i-s+1}^{n} \sum_{j_i=s+1}^{(n_i-j_s+1)} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{i=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)} \sum_{()} \\
& \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n) \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge l = i \wedge l_s \geq 0 \wedge$$

$$j_s^s = j_{sa}^l -$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2, k = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{SDOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l + 1)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{k=0}^{l-1} \sum_{s=2}^{j_s+1} \sum_{i=j_s+s-1}^{n} \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{i_k=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$((D \geq n < n - 1 \neq l \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_i + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = l \wedge k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, l_k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = l + k \wedge$$

$$l_k: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\begin{aligned}
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(j_s-1)} \sum_{i=2}^{(l_i+1)} \sum_{j_i=l_s+s-1}^{(l_i+1)} \\
 & \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{n_{is}=n+k-j_s+1}^{(n_{is}+j_s-j_i-k)} \sum_{j_i+1}^{(j_i+1)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_s - n_s - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(j_s-1)} \sum_{(j_s=j_i-s+1)}^{(j_s-1)} \sum_{j_i=l_i+n-D}^{(l_s+s-l)} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}
 \end{aligned}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=0}^{(l_i+n-D-s)-l+1} \sum_{(j_s=2)}^{j_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_s - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l + 1)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{n_{is}=n+l_s+1}^{(l_s-1)} \sum_{n_{is}=j_s+s-1}^{(l_s-1)} \sum_{n_{is}=n+l_s+1}^n \sum_{n_{is}=n+l_s-j_s+1}^{(n_{is}-j_s+1)} \sum_{ik=n_{is}+j_{sa}-j_{sa}^{ik}}^{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n - l + 1 \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq n - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$D > n < n \wedge l = l_i \wedge l_s \geq 0 \wedge$$

$$j_{sa}^s = j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\}$$

$$s - l \wedge l = s + k \wedge$$

$$k_z: z = 1$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s=2)}^{l_i - l + 1} \sum_{j_i = l_i + n - D}$$

$$\sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D + l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{j_s=l_i+1}^{n-s+1} \sum_{j_i=j_s+s-1}^{n-j_s+1} \sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s+1)} \sum_{k=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=2)}^{(j_i-s+1) l_{sa}-l-j_{sa}+1} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{n} \sum_{n_i=n+\mathbb{k} (n_{is}=n+\mathbb{k}-j_s+1)}^{n-j_s+1} \sum_{n_s=n-j_i+1}^{n_i-l_{sa}+s-l-j_{sa}+1} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{n} \sum_{n_i=n+\mathbb{k} (n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s + s - j_{sa} + 1)} \sum_{j_i=l_i+n-k}^{(n - j_{sa} + 1)} \sum_{n_i=n+k}^n \sum_{j_s=j_s+1}^{(n_i - j_s + 1)} \sum_{j_{sa}=n_{is}+j_{sa}^i - j_{sa}^{ik}}^{(j_{sa}^i - j_{sa}^{ik})} \sum_{j_{sa}=n_{ik}+j_s+j_{sa}^{ik} - j_i - j_{sa}^{s-k}}^{(j_{sa}^i - j_{sa}^{ik})} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_s + 1 \leq j_i - s$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^i = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^i = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$j_s + s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$s = 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n} \\
 &\sum_{n_i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)} \\
 &\frac{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}{(n_{is}-n_s-1)!} \\
 &\frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \\
 &\frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \\
 &\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \\
 &\frac{(l_s-l-s+1)!}{(j_s+l_s-l-s)! \cdot (j_i-j_s-s+1)!} \\
 &\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \\
 &\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n} \\
 &\sum_{n_i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \\
 &\frac{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}{(n_{is}-n_s-1)!} \\
 &\frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \\
 &\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}
 \end{aligned}$$

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$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{sa} - l - j_{sa} + 2)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}^{(j_s + 1)} \sum_{n_i = n - (j_s + 1)}^n \sum_{n_{ik} = n_{is} + j_s - j_i - j_{sa} - \mathbb{k}}^{(n_i)} \frac{(n_i)!}{(n - l)! \cdot (n - s)!} \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - i + 1 \wedge$$

$$D + s - n - l_i - 1 \leq l \leq i - l_s - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$i - j_{sa} - 1 = l_s \wedge l_{sa} \wedge j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i - 1 \wedge l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$i_s = j_{sa}^i \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n} \\
 &\quad \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{(n_{is}=n+k-j_s+1)}^{n_{is}+j_s-j_i-k} \\
 &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\quad \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 &\quad \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 &\quad \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\quad \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - l - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 &\quad \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 &\quad \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^{n} \\
 &\quad \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 &\quad \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-k)}^{(n_i-j_s+1)} \\
 &\quad \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
 &\quad \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\quad \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s}^{CT} = \sum_{k=l}^n \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n-j_s} \frac{l_{ik} - j_{sa}^{ik} + 1}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - j_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_{is} - n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(n_s - 1)!}{(l_s - l - 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^n \sum_{j_s=2}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_{sa}+s-l-j_{sa}+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(j_s + l_i - l - l_s - s - 1)!}{(j_s + l_i - l - l_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{i=1}^n \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{lk}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-l_k)}^{()} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+n-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-k} \frac{(n_i - l_s - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^n \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D - n - l_i - 1)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{l_i - j_s + 1} \sum_{j_i = j_s + s - 1}^{l_{sa} + n - j_{sa} + 1} \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{k = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{lk})} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D - s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l_{sa}+1} \sum_{j_i=l_{sa}+n+s}^{l_{sa}} \sum_{n_i=n+l}^n \sum_{n_s=n+k}^{(n_i-j_s)} \sum_{n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-j_s-1)!}{(j_s-2)! \cdot (n_{is}-n_{is}-j_s+1)!} \cdot \frac{(n_s-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}$$

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$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$D > n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$s \in \{s_{sa}^i, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s+s-l+1}^{l_s+s-l-j_{sa}+1} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l} \sum_{n_i=n+k}^n \sum_{(n_{is}+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-k)}^{()} \frac{(n - n_{ik})! \cdot (n - s)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(l_s - j_s - l)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + j_s > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n \wedge l \neq l_i) \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + j_s > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+1} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n_i+j_s-j_i-k} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{l_s - l - 1} \sum_{j_i = l_{sa} + n_{is} + j_s + k}^{j_i = l_{sa} + n_{is} + j_s + k} \sum_{j_i = j_s + s - 1}^{n_i - j_s + 1} \sum_{n_i = n + lk}^n \sum_{(n_{is} = n + lk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{k = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - lk)}^{(n_i - s - l)!} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n) \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + j_s + s - n - l_i + 1 \leq l \leq i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_i \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s - 2 \wedge s = l + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{l_s - l} \sum_{j_s=l_{sa}+k}^{j_s-l_{sa}+1} \sum_{j_i=j_s+1}^{n - (n_i - j_s + 1)} \sum_{n_i=n+k}^{n - (n_i - j_s + 1)} \sum_{j_s+1}^{(n_i - j_s + 1)}$$

$$\sum_{n_i=n_{is}+j_{sa}^s - j_{sa}^{lk}}^{(n_i - j_s + 1)} \sum_{n_i=n_{ik}+j_s+j_{sa}^{lk} - j_i - j_{sa}^{-lk}}^{(n_i - j_s + 1)}$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l = l_s \wedge l_s \leq D < n + 1 \wedge$$

$$1 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_s + 1 \leq j_i \leq n - (n_i - j_s + 1) \wedge$$

$$l_{ik} - j_{sa}^{lk} + j_{sa}^{lk} > l_s \wedge l_i + j_{sa}^{lk} - s = l_{ik} \wedge$$

$$j_s + 1 \leq l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=1}^l \sum_{(j_s=1)}^{()} \sum_{j_i=l_{ik}+n+s-D-j_{ik}}^{l_{ik}+s-i-l-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n-n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \frac{(n_i-1)!}{(j_i-1)! \cdot (n_i-n_s+1)!} \cdot \frac{(i-n-1)!}{(i-n)! \cdot (n-j_i)!} \cdot \frac{(l_i-l_s)!}{(l_i-j_i-l_s+1)! \cdot (j_i-s)!} \cdot \frac{(i-l_i)!}{(D-j_i-n-l_i)! \cdot (n-j_i)!}$$

$$((D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{\binom{\cdot}{l}} \sum_{j_s=1}^{l_i - l + 1} \sum_{j_i=n+\mathbb{k}}^n \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k}+1)} \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$\sum_{k=0}^n \sum_{l=1}^{(n-k)} \sum_{j_i=s}^{(n-k-l)}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{(n-k-l)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_s^s}$$

$$\frac{(n_i - s - k)!}{(n_i - n - k)! \cdot (n - s)!}$$

$$\frac{(D - l_i)!}{(D + s - n - k)! \cdot (n - s)!}$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}$$

$$D + j_{sa}^{ik} - n < l_i \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{i_s}^{DOST} = \sum_{k=1}^{()} \sum_{j_s=1}^{l_i - l + 1} \sum_{j_i=l_i+n-D}^{n} \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k}+1)} \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = l \wedge k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + 1 \wedge$$

$$k: z = 1 \wedge$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{\binom{()}{l}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-k+1)} \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i > D + l_{ik} + s - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i > D + l_s + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i > D + l_s + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i > D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz \sum_{j_s, j_i}^{DOS} \sum_{k=l}^{l+1} \sum_{j_s=2}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$((D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i > D + l_{ik} + s - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{sa} > D + l_{ik} + j_{sa} - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i > D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i > D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s}^D = \sum_{k=l}^{(l_i - D - s)} \sum_{j_i=n-D}^{l_i - l + 1} \sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{n_i - j_s + 1} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i - k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s - l + 1)} \sum_{j_i=l_i + n - D - s + 1}^{l_i - l + 1} \sum_{j_i=j_s + s}^{l_i - l + 1} \sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i - k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!}$$

$$\frac{(n - l_i)!}{(n + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}$$

$$l_i > D + l_{ik} + s - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} > D + l_{ik} + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{sa} > D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i > D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i > D + l_s + s - n - 1))$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\}$$

$$s = 2 \wedge s = s + 1$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=0}^{j_i} \sum_{(j_s=1)}^{()} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n+k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-k+1)} \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i > D + l_{ik} + s - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1)$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{sa} > D + l_{sa} + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i > D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i > D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = l_i \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, l_s, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + l_s \wedge$$

$$l_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_i - k + 1} \sum_{j_i = l_i + n - D}^{l_i - k + 1} \sum_{n_i = n + l_s}^n \sum_{(n_s = n - j_i + 1)}^{(n_i - j_i - l_s + 1)} \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = 0$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} = & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{s_a}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-l-j_{s_a}^{ik}+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - j_s - l + 1)!}{(j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{s_a}^{ik}+1)}^{(l_{ik}-l-j_{s_a}^{ik}+2)} \sum_{j_i=l_{ik}+s-l-j_{s_a}^{ik}+2}^{l_i-l+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i-k)}^{(n_{ik}+j_s+j_{sa}^{ik}-j_i-k)}$$

$$\frac{(l_s - s - l)!}{(l_s - s - l)! \cdot (n - s)!}$$

$$\frac{(l_s - l)!}{(l_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{ik} - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l_s > 0 \wedge$$

$$j_{sa}^{ik} = j_i - 1 \wedge j_{sa}^s \leq j_i - 1 \wedge$$

$$S: \{j_{sa}^s, \dots, j_{sa}^{i_s}\} \vee S: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 1 = s + k \wedge$$

$$k_z: z = 1 =$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\begin{aligned}
& \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
& \frac{(n_{i_s} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}^{l + 1} \\
& \sum_{n_{i_s} = n + \mathbb{k} - j_s + 1}^n \sum_{n_{i_s} = n + \mathbb{k} - j_s + 1}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{i_s} + j_s - j_i - \mathbb{k}}
\end{aligned}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$
 $D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$
 $2 \leq j_s \leq j_i - s \wedge$
 $j_s + s \leq j_i \leq n \wedge$
 $l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$
 $D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$
 $j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_s \leq j_{sa}^{ik} - 1 \wedge$
 $s: \{j_{sa}^s, \dots, \mathbb{k}, j_i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$
 $s > 2 \wedge s = s + 1$
 $\mathbb{k}_z: z = 1 \Rightarrow$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!}$$

$$\sum_{k=0}^{(l_{ik} - l_s - \mathbb{k} + 2)} \sum_{i_s=l_i+k-1}^{j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{i_k=n_{is}+j_{sa}^s-j_{sa}^{ik} \ (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_i \geq D - l_i + 1 \wedge$$

$$2 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^s + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_{ik}}^{j_{ik}} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s + j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_s - l_s + 1)!}{(j_s + j_i - l - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{ik}+s-l-j_{ik}^{sa}+1} \sum_{j_i=l_s+s-l+1}^{j_{ik}} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(\cdot)} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n} \sum_{n_i=n_{is}+j_{sa}^{ik}}^{n} \frac{(n_i - j_s + 1)!}{(n - l)! \cdot (n - s)!} \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$
 $2 \leq j_s \leq j_i - s + 1$
 $j_s - s - 1 \leq j_i \leq n \wedge$
 $l_{ik} = j_{sa}^{ik} + 1 > l_s \wedge j_{sa}^{ik} = l_{ik} \wedge$
 $n \geq n < n \wedge l = \mathbb{k} > 0$
 $j_{sa}^{ik} = j_{sa}^{i-1} - 1 \wedge j_{sa}^{i-1} - 1 \wedge$
 $\mathcal{S}: \{j_{sa}^s, \dots, j_{sa}^i\} \vee \mathcal{S}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$
 $j_s > 2 \wedge s \leq s + \mathbb{k} \wedge$
 $\mathbb{k}_z: z = 1 \Rightarrow$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=0}^{l_i - l_s - s + 1} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{s\bar{a}}^{ik}+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{(n-l+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k)} \frac{(n-l)!}{(n-l)! \cdot (j_s-1)!} \cdot \frac{(l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(D-l+1)!}{(D+l_k-n-l_i)! \cdot (n-j_i)!}$$

$$\left((D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee (D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \right) \wedge (D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge D \geq n < n \wedge l_s > D - n + 1 \wedge j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{l_s+s-l} \sum_{j_i=l_i+n}^{l_s+s-l}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - l - 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - l_s - s + 1)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i+n-D}^{n} \sum_{n_i=n}^{(n_i=n+k-j_s+1)} \sum_{(n_{ik}=n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(n_i-n-l)! \cdot (n-s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\ & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \\ & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \end{aligned}$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i} DOST} = \sum_{k=l}^{l+n-D-s} \sum_{j_s=l_s+n-D}^{j_s+l+n-D-s} \sum_{j_i=l_i+n-D}^{j_i+l+n-D-s} \frac{(n_i - j_s - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - 1)!}{(n_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_s - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{j_s=l_i+1}^{n-s+1} \sum_{j_i=j_s+s-1}^{n-s+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{l_i=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n - l_i + 1) \wedge l_s > D - n + 1 \wedge$$

$$D - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}))$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz \mathcal{S}_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_s+n-D}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{(j_s+1)} \sum_{j_i=j_s+s-1}^{(j_s+1)} \sum_{n_i=n}^n \sum_{(n_i+l_i-j_i-j_s+1)}^{(n_i+l_i-j_i-j_s+1)} \sum_{(n_i+l_i-j_i-j_s+1)}^{(n_i+l_i-j_i-j_s+1)} \frac{(n_i)!}{(n-l)! \cdot (n-s)!} \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1$$

$$2 \leq j_i \leq j_i - s + 1$$

$$j_s - s - 1 \leq j_i < n \wedge$$

$$l_{ik} = j_{sa}^{ik} + 1 = l_s \wedge j_{sa}^{ik} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n \wedge l = \mathbb{k} > 1$$

$$j_{sa}^{ik} = j_{sa}^i - 1, \quad s \leq j_{sa}^i - 1 \wedge$$

$$S: \{j_{sa}^i, \dots, j_{sa}^i\} \vee S: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l}^{(l_{sa}-l-s+2)} \sum_{j_{sa}=n-s-k+1}^{l_{sa}+n-s-k+1} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{l_i-l+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k)}^{()}$$

$$\frac{(n_i-j_s+1)!}{(n-l)! \cdot (j_s-s)!}$$

$$\frac{(l_i-l-1)!}{(j_i-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D)}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = \dots > 0 \wedge$$

$$j^{ik} = j_{sa}^l - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, l_k, j_{sa}^i\} \vee \{j_{sa}^s, \dots, j_{sa}^{ik}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \dots = s + l_k \wedge$$

$$l_{k_z}: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{n_s} \dots$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{n_i=n+k}^n \dots$$

$$\sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)}$$

GÜLDENWA

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i \wedge l_i + j_{sa} - l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + 1 \wedge$$

$$\mathbb{k}: z = 1 =$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_i=l_i+n-D)}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{j_s+s-1} \sum_{n_i=n}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_{is}+1} \frac{(n_{is}-s-I)!}{(n_i - n - I)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l > D - l_s + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + l_s = l_s \wedge l_s \cdot j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D > n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s \in \{j_s, \mathbb{k}, j_{sa}^i\} \vee s \in \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s > 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\begin{aligned}
fzS_{j_s, j_i}^{DOST} = & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i-k}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - j_s - l + 1)!}{(j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_{sa}+s-l-j_{sa}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \frac{(n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik}-k)}{(n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik}-k)} \frac{(l_s - s - l)!}{(l_s - s - l)! \cdot (n - s)!} \frac{(l_s - l)!}{(l_s - l - l + 1)! \cdot (j_s - 2)!} \frac{(l_i - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + l_{sa} = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{sa} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D \geq n < n \wedge l_s > 0 \wedge$

$j_{sa}^{ik} = j_i - 1 \wedge j_{sa}^s \leq j_i - 1 \wedge$

$S: \{j_{sa}^s, \dots, j_{sa}^i\} \vee S: \{j_{sa}^s, \dots, j_{sa}^k, j_{sa}^i\} \wedge$

$s > k = s + k \wedge$

$k_z: z = 1 =$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(n_i - j_s + 1)} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \sum_{n_i=l_i}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(n_i - j_s + 1)} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i-\mathbb{k}}
 \end{aligned}$$

GÜLDÜZMAYA

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\)}$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_s - j_{sa} > l_{ik} - l_i + j_{sa} - j_{sa} \wedge$

$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, \mathbb{k}, j_i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$

$s > 2 \wedge s = s + 1$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$fz^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l_s-2)} \sum_{n_{sa}+n_{sa}+1}^{n_{sa}+n_{sa}+1} \sum_{j_s+s-1}^{j_s+s-1}$$

$$\sum_{n_i=n+1}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{i_k=n_{is}+j_{sa}^{s_{ik}}-j_{sa}^{ik} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{s_{ik}}-k)}$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n - 1) \wedge (D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i - l)} \sum_{j_l = l_{sa} + n + s - D - j_{sa}}^{(j_i - l)} \sum_{l_s = l}^{l_s + s - l} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s - l + 1)} \sum_{j_l = l_s + n - D}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = l_s + s - l + 1}$$

$$\begin{aligned}
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l - l_s - s - 1)!}{(j_s + l_i - l - l_s - s - 1)! \cdot (i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=l}^{(j_i - s + 1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_i-j_s+1)} \\
& \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOS} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\begin{aligned}
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - 1)!} \cdot \\
 & \frac{(n_{is} - n_{ik} - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + 1 - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - j_i - n - 1 - l - 1)!}{(n_s - j_i - n - 1 - j_s - 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + 1)!}{(j_s - l - i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa})$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l_{ik} > 0 \wedge$$

$$j_{sa}^{ik} \leq j_{sa}^{i_s} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^i\} \vee s: \{j_{sa}^i, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 0 \wedge s = s + 1$$

$$\mathbb{k}_z: z = 1 \wedge$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_s + n - D)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_s - 1)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=0}^{(l_s - l - 1)} \sum_{i=l_{sa}+n_{sa}+1}^{(n_{sa}+1)} \sum_{j_i=j_s+s-1}^{(n - j_s + 1)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i - j_s + 1)} \\
& \sum_{i=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})} \binom{(\quad)}{(\quad)} \\
& \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n - l \neq i \wedge l \wedge l_s \leq D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1) l_{ik} - l - j_{sa}^{ik} + 1} \sum_{j_i=1}^{(j_i-s+1) l_{ik} - l - j_{sa}^{ik} + 1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_i - l + 1} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_i - l + 1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{\binom{l_i + s - j_i - j_s + 1}{j_s = j_s + 1}} \sum_{j_i = s + 1}^{\binom{l_i + s - j_i - j_s + 1}{j_i = s + 1}} \sum_{n_i = n + \mathbb{k}}^n \sum_{n_i = n + \mathbb{k}}^{(n_i - j_s + 1)} \sum_{s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k}}^{\binom{n_i - j_s + 1}{s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k}}} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq 1 \leq n \wedge l \neq i, l \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_s + 1 \wedge$$

$$j_s + 1 \leq j_i - 1 \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$s > 2 \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\begin{aligned}
f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1} \\
&\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+k}^{n_{is}+j_s-j_i-k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
&\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i - k)!} \\
&\frac{(n_s - 1)!}{(n - j_i)!} \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
&\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \\
&\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \\
&\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1} \\
&\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
&\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
&\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
&\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SD} = \sum_{l=1}^n \sum_{(j_s=1)}^{(j_i-s+1)} \sum_{j_i=l+n-D}^{j_{sa}^{ik}+1} \sum_{n_i=1}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_i-l+1}$$

$$\begin{aligned}
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l - l_s - s - 1)!}{(j_s + l_i - l_s - l - s + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{l_i=j_s+1}^{()} \sum_{j_s=j_i-s+1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_i+n-D}^{()} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
& \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s+1)} \sum_{(j_s=0)}^{(l_i+n-D-s+1)} \sum_{j_i=l_i+n-D-s+1}^{(l_i+n-D-s+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_i+j_s-j_i-\mathbb{k})} \frac{(n_i - l_s - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_i-l+1)} \sum_{j_i=j_s+s-1}^{(l_i-l+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-\mathbb{k})}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=n_{is}+j_{sa}^s - j_{sa}^{ik}}^n \sum_{(j_s=l_i+l_s-s+1)}^{(n_i-j_s+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D - n - l_s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz^D S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=2}^{l+1} \sum_{j_i=n-D}^{l+1} \frac{(n_i-j_s) \dots (n_i+j_s-j_i)}{(n_i+n+\mathbb{k}) \dots (n_i-j_i+1)} \frac{(n_i-n_{is}-1)!}{(j_i-2)! \cdot (n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-\mathbb{k}-1)!}{(j_i-n_{is}-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_i+n-D-s+1}^{n} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \binom{(\quad)}{\quad}$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$j_{s, j_i}^{DOST} = \sum_{k=l}^{(j_i - s + 1)} \sum_{(j_s = 2)}^{l_s + s - l} \sum_{j_i = l_{ik} + n + s - D - j_{sa}^{ik}}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{(n_i - n_{is} - 1)!}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\begin{aligned}
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = 2)}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{j_i = l_s + s - l + 1}^{n_i - j_s + 1} \sum_{n_i = n + lk}^{n_i - j_s + 1} \sum_{n_s = n + lk}^{n_i - j_s + 1} \sum_{j_i + 1}^{n_i - j_s + 1} \\
 & \frac{(n_i - j_s + 1)! \cdot (j_s - j_i - lk)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_i - n_{is} - 1)!}{(j_i - 1)! \cdot (n_i - n_{is} - j_s - lk)!} \cdot \\
 & \frac{(n_i - j_s - 1)!}{(n_i + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{()} \sum_{(j_s = j_i - s + 1)}^{l_s + s - l} \sum_{j_i = l_{ik} + n + s - D - j_{sa}^{ik}}^{l_s + s - l} \\
 & \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik}}^n \sum_{(n_{is} = n + lk - j_s + 1)}^{(n_i - j_s + 1)} \\
 & \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{ik} - lk)}^{()} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot
 \end{aligned}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SD} = \sum_{k=l} \sum_{(j_s=2)}^{D-j_{sa}^{ik}} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\begin{aligned}
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
 & \frac{(n_s - n_i - n - 1)!}{(n_s - n_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + 1)!}{(j_s - l - l_s)! \cdot (j_i - j_s - s + 1)!} \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOS} \sum_{k=l}^{l+1} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{(n-j_s+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k)}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k)}$$

$$\frac{(n-l)!}{(n-l)! \cdot (j_s-1)!}$$

$$\frac{(l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D-j_s)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz^D_{j_s, j_i}^{POST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\begin{aligned}
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = 2)}^{l_i - l + 1} \sum_{j_i = l_s + s - l + 1}^{l_i - l + 1} \\
 & \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{= n - j_i + 1}^{n_{is} + j_s -} \\
 & \frac{(n_i - n_{is} -)}{(j_s - 2)! \cdot (n_{is} - + 1)!} \cdot \\
 & \frac{(n_{is} - n_{is} - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + - n_s - j_i -)} \cdot \\
 & \frac{(n - - l - 1)!}{(n_s - j_i - n - - j_i)!} \cdot \\
 & \frac{(n - - j_s - - 1)! \cdot (j_s - 2)!}{(l_i - l_s + 1)!} \cdot \\
 & \frac{(l_i - l_s + 1)!}{(j_s - l - i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{()} \sum_{(j_s = j_i - s + 1)}^{l_s + s - l} \sum_{j_i = s + 1}^{l_s + s - l} \\
 & \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \\
 & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{()} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$l_i - 1 \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^n$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+k}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k)!}{(j_i - j_s - 1)! \cdot (n_{is} - j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^n$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik} - j_i - j_{sa}^s - k)}$$

$$\frac{(n_i - s - 1)!}{(n_i - n - 1)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

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$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D - n < l_i \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{n_i-j_s+1} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
&\frac{(n_{i_s} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i - l_k)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
&\frac{(n_{i_s} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i - l_k)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{\binom{()}{j_s=j_i-s+1}} \sum_{l_s+s-l}^{j_i+l-n-D}$$

$$\sum_{n_i=n+l_k}^n \sum_{\binom{()}{n_i+l_k-j_s+1}}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{\binom{()}{n_{ik}+j_s+j_{sa}^{ik}-l_k}}^{(n_{ik}+j_s+j_{sa}^{ik}-l_k)}$$

$$\frac{(n - n - s - l)!}{(n - n - s)! \cdot (n - s)!}$$

$$\frac{(l_s - l + 1)! \cdot (j_s - 2)!}{(l_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - j_i - n - l_i)! \cdot (n - j_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i) \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + l_s > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{lk} = j_{sa}^l - 1 \wedge j_{sa}^s \leq j_{sa}^{lk} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{lk}, k, j_{sa}^i\}$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$j_{i,j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - k - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(\quad)} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot
 \end{aligned}$$

$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 \leq l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$s > 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{i_s}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{j_i=n-j_i+1}^{n_{i_s}+j_s-j_i}$$

$$\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - j_s + 1)!}$$

$$\frac{(n_{i_s} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - \mathbb{k} - 1)! \cdot (n_{i_s} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - j_s - n - 1)! \cdot (n - j_i)!}{(j_s - 1)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_s - l_s - s + 1)!}{(j_s + l_s - l - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{i_s}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{i_s}+j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{()}$$

$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{n_i-j_s+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - l_k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^n \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^n \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-l_k)}^{(n_i-j_s+1)} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$\sum_{k=l}^{DOST} \sum_{j_i=1}^{l+n-D} \sum_{j_s=2}^{l_i-l+1} \sum_{n_i=n+k}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l} \sum_{j_s=l_i+n-D-s+1}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l - l_s - s + 1)!}{(j_s + l_i - l - l_s - s + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=1}^{l_s - l - j_{sa} + 2} \sum_{i=l_i + n - D - s + 1} \sum_{j_i=j_s + s - 1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

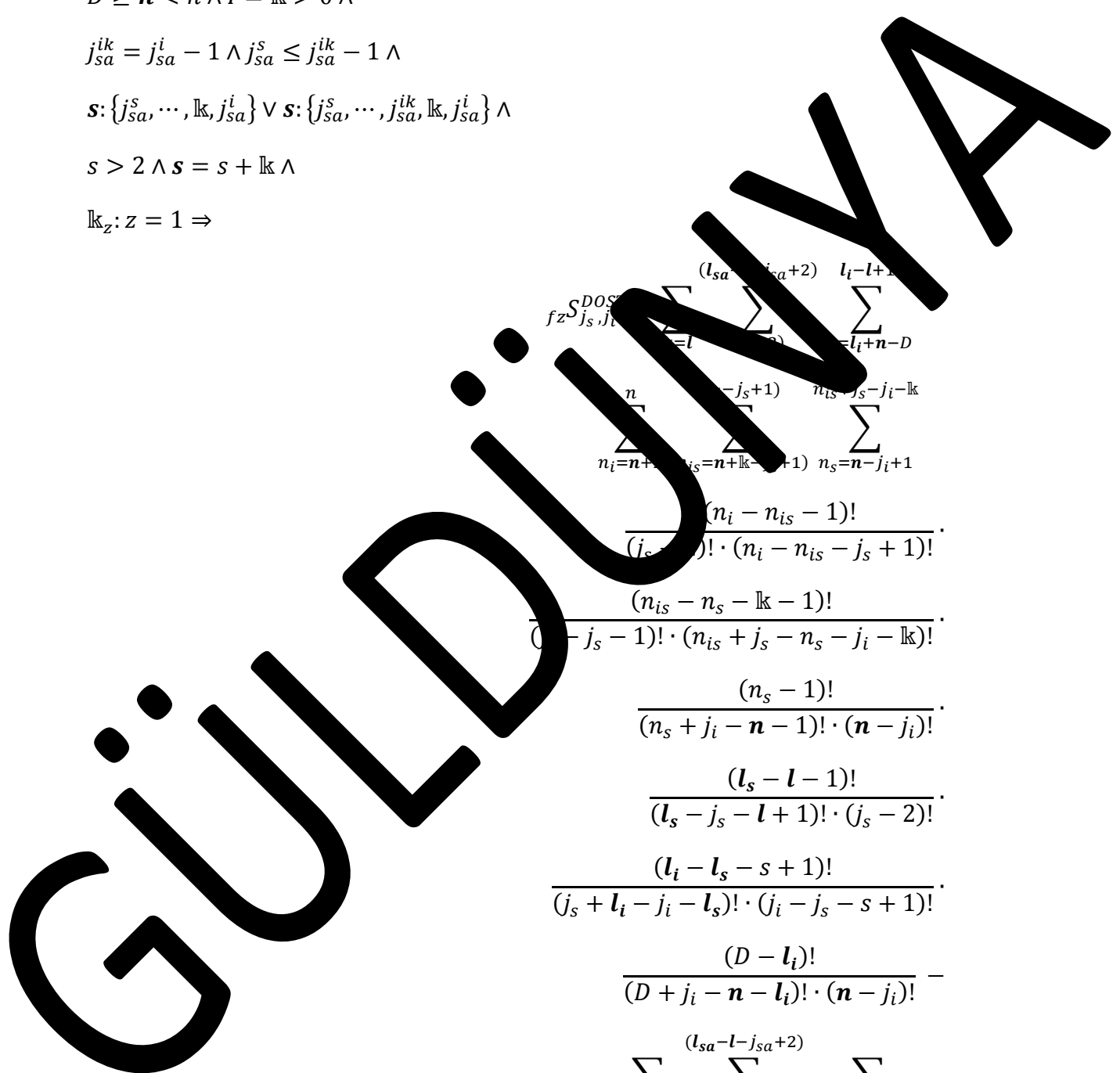
$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOS} = \sum_{l=l_i+n-D}^{(l_{sa}-j_{sa}+2)} \sum_{n_i=n+l}^{n} \sum_{n_{is}=n+k-l+1}^{n_{is}-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}-j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(l_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$



$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(D - l_s)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} \wedge l_i + j_s - s = l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + 1 \wedge$$

$$\mathbb{k} : z = 1 =$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{n} \sum_{(j_s=2)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-j_{sa}^{ik}+2}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(j_s+1)} \sum_{n_s=n-j_i+1}^{j_i-k}$$

$$\frac{(n_i - n_s - k)!}{(j_s - 1)! \cdot (n_i - n_s - k + 1)!}$$

$$\frac{(n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

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$$\frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$S_i^{DQ} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-k} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\begin{aligned}
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = j_s + s - 1} \\
 & \sum_{n_i = n + lk}^n \sum_{(n_{is} = n + lk - j_s)}^{(n_i - j_s + 1)} \sum_{(n_i = n_i + j_i - lk)}^{(n_i + j_s - j_i - lk)} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_i - l_s - l_s - 1)!}{(j_i - 1)! \cdot (n_i + j_s - l_s - l_i - lk)!} \cdot \\
 & \frac{(n_i - j_s - 1)!}{(n_i + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(n_i - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{lk} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1} \\
 & \sum_{n_i = n + lk}^n \sum_{(n_{is} = n + lk - j_s + 1)}^{(n_i - j_s + 1)} \\
 & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - lk)}^{()} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot
 \end{aligned}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s}^{DOS} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1} \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik})}^{(n_{ik} + j_s + j_{sa}^{ik} - l - k)} \frac{(n - s - l)!}{(n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l)}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq l \wedge l \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-l+1)} \sum_{(j_s=2)}^{j_i-l+1} \sum_{j_i-l+1}^{n+l_s+n+s-D-j_{sa}} \sum_{n_i=n+l_k}^{(n_i-l+1)} \sum_{(n_{is}=n+l_k-j_s+1)}^{n_i-l+1} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - k - 1)!}{(n_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s+s-l+1}^{n_i+j_s-j_i-k} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_s - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{n_i - j_i - s + 1} \sum_{l_i = j_i - s + k}^{n_i - j_i - s + k} \sum_{l_s = l_{sa} + n + s - D - j_{sa}}^{n_i - j_i - s + k} \sum_{n_i = n + k}^n \sum_{n_{is} = n + k - j_s + 1}^{(n_i - j_s + 1)} \sum_{l_i = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{(n_i - s - l)} \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < l) \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1))$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$j_{sa}^{ik} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n} \sum_{(n_i=n+\mathbb{k})}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{(n_i - n_{is} - 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\begin{aligned}
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{+j_s-j_i-k} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k)}^{(n_i-j_s+1)} \sum_{n_s=j_i+1}^{+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(j_i - n_{is} - 1)!}{(n_{is} + j_s - 1)! \cdot (n_i - k)!} \cdot \\
 & \frac{(n_s - 1)!}{(D + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_i - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{(l_s-l-1)} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(n_i-j_s+1)} \\
 & \frac{(n_i - s - l)!}{(n_i - n - l)! \cdot (n - s)!}
 \end{aligned}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - k - 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s + s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (n - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{(l_s-l-1)}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(n_i - s - I)!}{(n_i - n - I)! \cdot (n - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l = i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_{z,j_s}^{ST} = \sum_{k=i}^{l} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+l-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^{(n_i-j_i-\mathbb{k}+1)} \sum_{(n_s=n-j_i+1)}^{(n_i-n_s-\mathbb{k}-1)!} \frac{(n_i-n_s-\mathbb{k}-1)!}{(j_i-2)! \cdot (n_i-n_s-j_i-\mathbb{k}+1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_i-l_s-s+1)!}{(l_i-j_i-l_s+1)! \cdot (j_i-s)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$((D \geq n < n \wedge l = i) \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = i) \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_i \leq D + s - n$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge l = l_i > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, l_k, j_i\} \vee s: \{l_s, \dots, j_{sa}^{ik}, l_k, j_{sa}^i\} \wedge$$

$$s > n - l_k = s + l_k \wedge$$

$$l_{k_z}: z = 1 =$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=1}^n \sum_{(j_s=1)}^{l_i - l + 1} \sum_{j_i=s}^{(n_i - j_i - l_k + 1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_s=n-j_i+1)}$$

$$\frac{(n_i - n_s - k - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - k + 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - l_s)!}$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$\sum_{k=0}^{j_i - l_s} \sum_{j_s=1}^{n - j_i - k} \sum_{i=1}^n$$

$$\sum_{k=0}^n \sum_{j_s=1}^{n - j_i - k} \sum_{i=1}^n (n_i - j_s - j_{sa} - k = n_{ik} + j_s + j_{sa} - j_{sa} - k)$$

$$\frac{(n_i - n - k)! \cdot (n - s)!}{(n_i - n - k)! \cdot (n - s)!}$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - l_{ik} \wedge$$

$$D + s - n < l_i \leq D + j_{sa}^{ik} + s - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i \wedge l_i + j_{sa} - l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \wedge s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = \mathbb{k} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=0}^{\binom{()}{j_s=1}} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1) \wedge (j_{sa}^{ik} = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s j_i}^{DOST} = \sum_{k= {}_i l} \sum_{(j_s=1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}} \binom{()}{l_{sa}+s- {}_i l-j_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-k+1)}$$

$$\frac{(n_i - n_s - k - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - k + 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s - 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}$$

$$\frac{(D - l_i - l_s - 1)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i > D + l_{ik} + s - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} > (D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{sa} > D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i > D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i > D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \cap \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = \dots + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot$$

$$\frac{(D - l)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i > D + l_{ik} + s - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_{ik} > D + l_{ik} + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{sa} > D + l_{sa} + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i > D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i > D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{i=j_s+s}^{l_i-l+1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l_k} \frac{(n_{is}-1)!}{(j_s-1)! \cdot (n_i-n_{is}+1)!} \cdot \frac{(n_{is}-n_s+l_k-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-l_k)!} \cdot \frac{(n_s-1)!}{(n-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_i - s \wedge$$

$$j_s + s \leq j_i \wedge n \wedge$$

$$l_i - 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i > D + l_{ik} + s - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{sa} > D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i > D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 = l_s \wedge$$

$$l_i > D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=1}^{\binom{D}{i}} \sum_{(j_s=1)}^{\binom{D-i}{l}} \sum_{j_i=l_i+n-D}^{\binom{D-i}{l+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n-n-j_i+1)}^{\binom{n_i-j_i-\mathbb{k}+1}{n-n-j_i+1}}$$

$$\frac{\binom{n_i-n_s-\mathbb{k}+1}{j_i-2} \cdot \binom{n_i-n_s-j_i-\mathbb{k}+1}{n-n_s-j_i-\mathbb{k}+1}}{\binom{n_i-n_s-1}{j_i-1} \cdot \binom{n_i-n-s-1}{n-n-s-1} \cdot (n-j_i)!}$$

$$\frac{\binom{l_i-l_s}{(l_i-j_i-l_s+1)! \cdot (j_i-s)!}}{\binom{l_i-l_s}{(l_i-j_i-l_s+1)! \cdot (j_i-s)!}}$$

$$\frac{\binom{l_i-l_i}{(D-j_i-n-l_i)! \cdot (n-j_i)!}}$$

$$(D \geq n < n \wedge l = \binom{D}{i} \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + s > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i > D + l_{ik} + s - (n - j_{sa}^{ik}) \wedge$$

$$(D \geq n < n \wedge l = \binom{D}{i} \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + s > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} > D + l_{ik} + s - (n - j_{sa}^{ik} - 1) \vee$$

$$(D \geq n < n \wedge l = \binom{D}{i} \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{sa} > D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i > D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_{ik} > D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i > D + l_s + j_{sa}^{ik} - n - 1) \wedge$$

$$D \geq n < n \wedge l = l \wedge l_s > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, l_{sa}\} \vee s: \{l_{sa}, \dots, j_{sa}^{ik}, l_{sa}, j_{sa}^s\} \wedge$$

$$s > 0 \wedge l_{sa} = s + l_{sa} \wedge$$

$$l_{sa}: z = 1 =$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=1}^{l} \sum_{(j_s=1)}^{l_i - l + 1} \sum_{j_i = l_i + n - D}^{(n_i - j_i - l + 1)} \sum_{n_i = n + l}^n \sum_{(n_s = n - j_i + 1)}^{(n_i - j_i - l + 1)}$$

$$\frac{(n_i - n_s - k - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - k + 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - l_s)!}$$

$$\frac{(D - l)!}{(D + j_i - n - l)! \cdot (n - j_i)!}$$

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$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{(l_{ik}+s-l-j_{sa}^{ik})} \sum_{(n_i=n-j_s+1)}^{(n_i+j_s-j_i)} \frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_i=l_{ik}+s-l-j_{sa}^{ik}+2)}^{(l_i-l+1)} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{j_s} \sum_{j_s=j_i-k}^{(j_s-j_i-k)} \sum_{j_i=l_i+n-D}^{j_s^{ik}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{k=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_i-l+1} \sum_{j_i=l_i+n}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{j_i = l_i + n - D - s + 1}^{j_i = l_i + n - D - s + 1} \sum_{n_i = n - l_i - j_i}^{n_i = n + k - j_s + 1} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l_i)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n + l_i > D - l_i + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l_i < D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - j_{sa}^i - 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n + l_i = k = 0 \wedge$$

$$j_{sa}^i - j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_z^{S_{j_s, j_i}^{DOST}} = & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
 & \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s-1)} \sum_{(j_s=l_s+n-D)}^{j_i+l-1} \sum_{j_i+n+s-D-j_{sa}^{lk}}^{j_i+l-1} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{ik}+s-l-j_{sa}^{lk}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{n_i - j_s + 1} \sum_{l_{ik} = n_{is} + j_s - k}^{n_i - j_s + 1} \sum_{l_{sa} = l_{ik} + n + s - D - j_{sa}^{ik}}^{n_i - j_s + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{\mathbb{k} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{(n_i - j_s + 1)} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{(j_s=l_s+n-D)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_s}^{n} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_s-n_{is}-1)!} \frac{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}{(n_i-n_{is}-1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(l_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{n} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \frac{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}{(n_i-n_{is}-1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_s+l_s-1)} \sum_{n_i=n}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_{is}+j_s-1)}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - 1)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee (D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee (D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_s+s+1)} \sum_{j_i=l_i+s-l}^{(j_s+n-D)} \frac{\binom{n}{n_i-j_s+1} \binom{n_{is}+j_s-j_i}{n_{is}-j_i+1}}{\binom{j_s-2}{j_s-2}! \cdot \binom{n_{is}-j_s+1}{n_{is}-j_s+1}!} \cdot \frac{\binom{j_s-n_s-1}{j_s-n_s-1}!}{\binom{j_s-j_s-1}{j_s-j_s-1}! \cdot \binom{n_{is}+j_s-n_s-j_i}{n_{is}+j_s-n_s-j_i}!} \cdot \frac{\binom{n_s-1}{n_s-1}!}{\binom{n_s+j_i-n-1}{n_s+j_i-n-1}! \cdot \binom{n-j_i}{n-j_i}!} \cdot \frac{\binom{l_s-l-1}{l_s-l-1}!}{\binom{l_s-j_s-l+1}{l_s-j_s-l+1}! \cdot \binom{j_s-2}{j_s-2}!} \cdot \frac{\binom{l_i-l-s+1}{l_i-l-s+1}!}{\binom{j_s+l_i-j_i-l_s}{j_s+l_i-j_i-l_s}! \cdot \binom{j_i-j_s-s+1}{j_i-j_s-s+1}!} \cdot \frac{\binom{D-l_i}{D-l_i}!}{\binom{D+j_i-n-l_i}{D+j_i-n-l_i}! \cdot \binom{n-j_i}{n-j_i}!} + \sum_{k=l}^{(l_s-l+1)} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{\binom{n_i-n_{is}-1}{n_i-n_{is}-1}!}{\binom{j_s-2}{j_s-2}! \cdot \binom{n_i-n_{is}-j_s+1}{n_i-n_{is}-j_s+1}!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l_i}^{l_s+s-1} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{ik=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\ & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \end{aligned}$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{i_i}^{POST} = \sum_{k=l}^{(l_s - l + 1)} \sum_{j_i=l_i+n-D}^{(l_s - l + 1)} \sum_{j_i=l_i+n-D}^{(l_s - l + 1)} \frac{(n_i - j_i + 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s - l + 1)} \sum_{j_i=l_i+n-D-s+1}^{(l_s - l + 1)} \sum_{j_i=j_s+s-1}^{(l_s - l + 1)}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l - l_s - s - 1)!}{(j_s + l_i - l_s - l - s + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{(l_s-l+1)} \sum_{i=l_i+n-D-s+1} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(n_i-j_s+1)} \\
& \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n} \sum_{(n_i=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{j_i-j_s+s-1} \sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_{is}=n+k-j_s+1)} \sum_{(n_{ik}=n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(n_{ik}=n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \frac{(n_i + j_s - j_i - I - j_{sa}^s)!}{(n_i - n - j_{sa}^s)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l > D - l + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + j_s - l_s \wedge l_s \wedge j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$D > n \wedge I = \mathbb{K} = 0 \wedge$

$j_{sa}^s \leq j_{sa}^i \wedge$

$s \in \{s, sa\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{j_i-j_s+1} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{sa}-l-s+2)} \sum_{j_{sa}=n-j_{sa}+1}^{l_{sa}+n-k} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

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$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{()}$$

$$\frac{(n_i+j_s-j_s) \cdot (l-j_s)!}{(n_i-n-j_s) \cdot (n+j_s-j_s) \cdot (j_{sa}^s)!}$$

$$\frac{(l_i+l-1)!}{(j_i-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D)}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$

$D \geq n < n \wedge I = 0 \wedge$

$j_s^l \leq j_{sa}^l - 1$

$s: \{j_s^l, j_{sa}^l\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} + \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}=n_s+1} \frac{(n_i - n_{is} - 1)!}{(j_s - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}=n_s+1}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-\mathbb{k}}} \frac{(n_i+j_s-j_i-I-j_{sa}^s)!}{(n_i-n-I)! \cdot (n+j_s-j_i-j_{sa}^s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-l)!} \cdot \frac{(D-l_s)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i \wedge l_i + j_{sa} - l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s =$$

$$fz^S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{\binom{(l_{sa}-l-j_{sa}+2)}{(j_s=l_{sa}+n-D-j_{sa}+1)}} \sum_{\binom{l_i-l+1}{j_i=l_i+n-D}} \sum_{n_i=n}^n \sum_{\binom{(n_i-j_s+1)}{(n_{is}=n-j_s+1)}} \sum_{\binom{n_{is}+j_s-j_i}{n_s=n-j_i+1}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^{(j_s+1)} \sum_{n_i=n}^n \sum_{n_i=n}^{(n+j_s+1)} \sum_{n_{ik}=n_{is}+1}^{(n_{ik}+j_s)} \sum_{n_{ik}=n_{ik}+j_s}^{(n_{ik}-j_i-j_{sa}^{lk})} \frac{(n_i - j_s - j_i - l_s)!}{(n - n - l_s)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1$$

$$2 \leq j_s \leq j_i - s + 1$$

$$j_s - s - 1 \leq j_i < n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{ik} + j_{sa}^{ik} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n \wedge l = \mathbb{k} =$$

$$j_{sa}^s \leq j_{sa}^i - 1$$

$$s: (j_{sa}, j_{sa}^i)$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\begin{aligned}
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^l \sum_{(j_{sa}^{ik}+1)}^{(l_{ik}-l_{sa}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_{sa}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l} \sum_{\binom{()}{j_s=j_i-s+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{\binom{()}{n_{is}=n+l_k-j_s+1}}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k}}^{(n_i-j_s+1)}$$

$$\frac{(n_i+j_s-j_s-l-j_{sa}^s)!}{(n_i-n-l_k)!(n+j_s-j_s-l_{sa}^s)!} \cdot \frac{(l_s-l-1)!}{(j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(D-l-j_s+1)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} > l_{ik} \wedge l_{sa} - j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l = 0 \wedge$$

$$j_s \leq j_{sa}^i - 1$$

$$s: \{j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{S^{DOST}} = \sum_{k=l} \sum_{\binom{()}{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{\binom{()}{n_{is}=n-j_s+1}}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n-(n_i-j_s+1)-n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n-(n_i-j_s+1)-n_{is}+j_s-j_i}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_i+j_s-j_i-I-j_{sa}^s)!}{(n_i-n-I)! \cdot (n+j_s-j_i-j_{sa}^s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-l)!} \cdot \frac{(D-l)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_i \wedge l_i + j_{sa} - l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s =$$

$$f_{z_{ik}}^{ST} = \sum_{k=l}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - l - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = n - l - j_{sa} + 1}^n \sum_{n_{is} = n + l_k - j_s + 1}^n \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l_i)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee \\ & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee \\ & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \end{aligned}$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{(j_i=l_{sa}+n+s-l)}^{(l_s+s)} \sum_{(n)}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s)}^{(n_{is}+j_s-j_i)} \sum_{(n_{is}=n-j_s)}^{(n_{is}=n-j_s)} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(j_s - n_s - 1)!}{(j_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{(l_s-l+1)} \sum_{(j_i=l_s+s-l+1)}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{(n_i=n)}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{(n_{is}+j_s-j_i)} \sum_{(n_s=n-j_i+1)}^{(n_s=n-j_i+1)} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l_i}^{()} \sum_{n_i=j_i-s}^{l_s+s-l} \sum_{n_{sa}=n_{sa}-D-j_{sa}}^{()} \sum_{n_i=n+1}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s+1)} \sum_{ik=n_{is}+j_{sa}-j_{sa}^{ik}}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}}^{()} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$((D \geq n < n \wedge l > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s - l - 1)} \sum_{j_s = l_{sa} + n - D - j_{sa} + 1}^{l_{sa} + n - D - j_{sa} + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}^{l_{sa} + n - D - j_{sa} + 1} \frac{\binom{n_i - 1}{n_{is} = n - j_s + 1} \binom{n_{is} + j_s - j_i}{n_s = n - j_i + 1}}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s - l - 1)} \sum_{j_s = l_{sa} + n - D - j_{sa} + 1}^{l_{sa} + n - D - j_{sa} + 1} \sum_{j_i = j_s + s - 1}^{l_{sa} + n - D - j_{sa} + 1}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l - l_s - s - 1)!}{(j_s + l_i - l_s - l + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{(l_s-l-1)} \sum_{(j_s+n-l_s+l+1)}^{(j_s+n-D-j_s+1)} \sum_{j_i=j_s+s-1}^{n} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \\
& \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{j_s} \sum_{j_i=j_s+s-1}^n \sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_{is}=n+k-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}=n_{is}+j_{sa}+j_{sa}^{ik}-j_i-j_{sa}^{ik})} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - j_i)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l \leq D - n + 1$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + j_{sa} \leq l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i - j_{sa}^{ik} - s - n \wedge$

$D \geq n < n \wedge l = k = 0 \wedge$

$j_{sa}^{i-1} - j_{sa}^{i-1} - 1 \wedge$

$s: \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$\begin{aligned}
 f_z^{\mathcal{S}_{j_s, j_i}^{DOST}} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_s^k+1}} \sum_{j_i=s+1}^{n_{is+j_s-j_i}} \\
 &\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is+j_s-j_i}} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_{ik-l-j_s^k+2})} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_{ik+s-l-j_s^k+2}}^{l_i-l+1} \\
 &\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is+j_s-j_i}} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_{ik+s-l-j_{sa}^{ik}+1}}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i+l_k)}^{()}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - j_s - j_i - j_{sa}^s)! \cdot (n + j_i - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_i \leq n - 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - j_{sa}^{ik} + l_s = l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik}$$

$$D \geq n < n \wedge l = 0 \wedge$$

$$j_{sa}^s \leq j_i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\}$$

$$s \geq j_{sa}^s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=2)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_s)} \sum_{j_i=j_s+s-1}^{(n - j_s + 1)} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i - j_s + 1)} \sum_{k=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{()} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$l_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$

$j_{sa}^s \leq j_{sa}^i - 1 \wedge$

$s: \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1) l_{ik+s-l-j_{sa}^{ik}}} \sum_{(j_s=2)} \sum_{j_{sa}^{ik}+n-D} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{\binom{l_i + s - j_{sa}^{ik} + 1}{j_s = j_{sa}^{ik} + 1}} \sum_{j_i = l_i + n - k}^{\binom{l_i + s - j_{sa}^{ik} + 1}{j_i = l_i + n - k}} \sum_{n_i = n + k}^n \sum_{n_{is} = n_{is} - j_s + 1}^{(n_i - j_s + 1)} \sum_{s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k}^{\binom{n_i - j_s + 1}{s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k}} \frac{(n_i - j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i, l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_{sa}^s + 1 \wedge$$

$$j_s + 1 \leq j_i - 1 \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n_i-n-j_s+1} \\
 &\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
 &\frac{(l_i - l_s - s + 1)!}{(l_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_{ik}-l-j_{s\bar{a}}^k+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_i-n-j_s+1} \\
 &\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}^{(j_s + 1)} \sum_{n_i = n + j_s + 1}^{(n + j_s + 1)} \sum_{(n_{ik} = n_{is} + j_{sa}^{ik} - n_{is} + j_s + 1 - j_i - j_{sa}^{ik} - k)} \frac{(n_i - j_i - l)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - i + 1 \wedge$$

$$D + s - n - l_i - 1 \leq l \leq i - 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} - 1 = l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \wedge l_s + s - n - 1 \wedge$$

$$D \geq n < i \wedge l = k = 0 \wedge$$

$$s < j_i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n} \\
 &\sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_s+1}^{n_s} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 &\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{n} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \\
 &\sum_{n_i=n+k}^{n} \sum_{(n_{is}=n+k-j_s+1)}^{n_{is}} \\
 &\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(n_i-j_s+1)} \\
 &\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} \sum_{j_s=1}^{j_i-s+1} \sum_{l_s=1}^{l_s+s-l} \sum_{n_i=n-j_s+1}^{n} \sum_{n_{is}=n-j_s+1}^{n_i+j_s-j_i} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-l+1}^{n_i+j_s-j_i} \sum_{n_i=n-j_s+1}^{n} \sum_{n_{is}=n-j_s+1}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{n_i - j_s + 1} \sum_{l_{ik} = l_{ik} + n + s - D - j_{sa}^{ik}} \sum_{n_i = n + l_k}^n \sum_{(n_{is} = n + l_k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{k=n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - l_k)} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n-D-j_{sa}^{ik}}^{n-j_s-j_i} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_s=n-j_i+1} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_s=n-j_i+1} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s - l)} \sum_{j_s=l_{ik}+n_{is}-j_{sa}^{ik}+1}^{j_s} \sum_{j_i=j_s+1}^{n} \sum_{n_i=n+k}^{n} \sum_{n_{is}=n_{is}-j_s+1}^{(n_i - j_s + 1)} \sum_{n_{is}=n_{is}-j_{sa}^{ik}-j_i-j_{sa}^s-k}^{(n_i - j_s + 1)} \frac{(n_i - j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i, l \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_i - s \wedge$$

$$j_s + s \leq j_i - n \wedge$$

$$i - 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{j_i=l_{ik+n+s-D-j_{ik}}}^{(n_i-j_s+1)} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-1} \sum_{(n_{is}=n-j_i+1)}^{n_{is}+j_s-1} \frac{(n_i - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!} \cdot \frac{(n_{is} - 1)!}{(j_i - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \frac{(n_s)}{(n_s + j_s - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{lk})} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{lk})}^{(n_i-j_s-j_i-l-j_{sa}^s)!} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}^{l_s+s-l}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

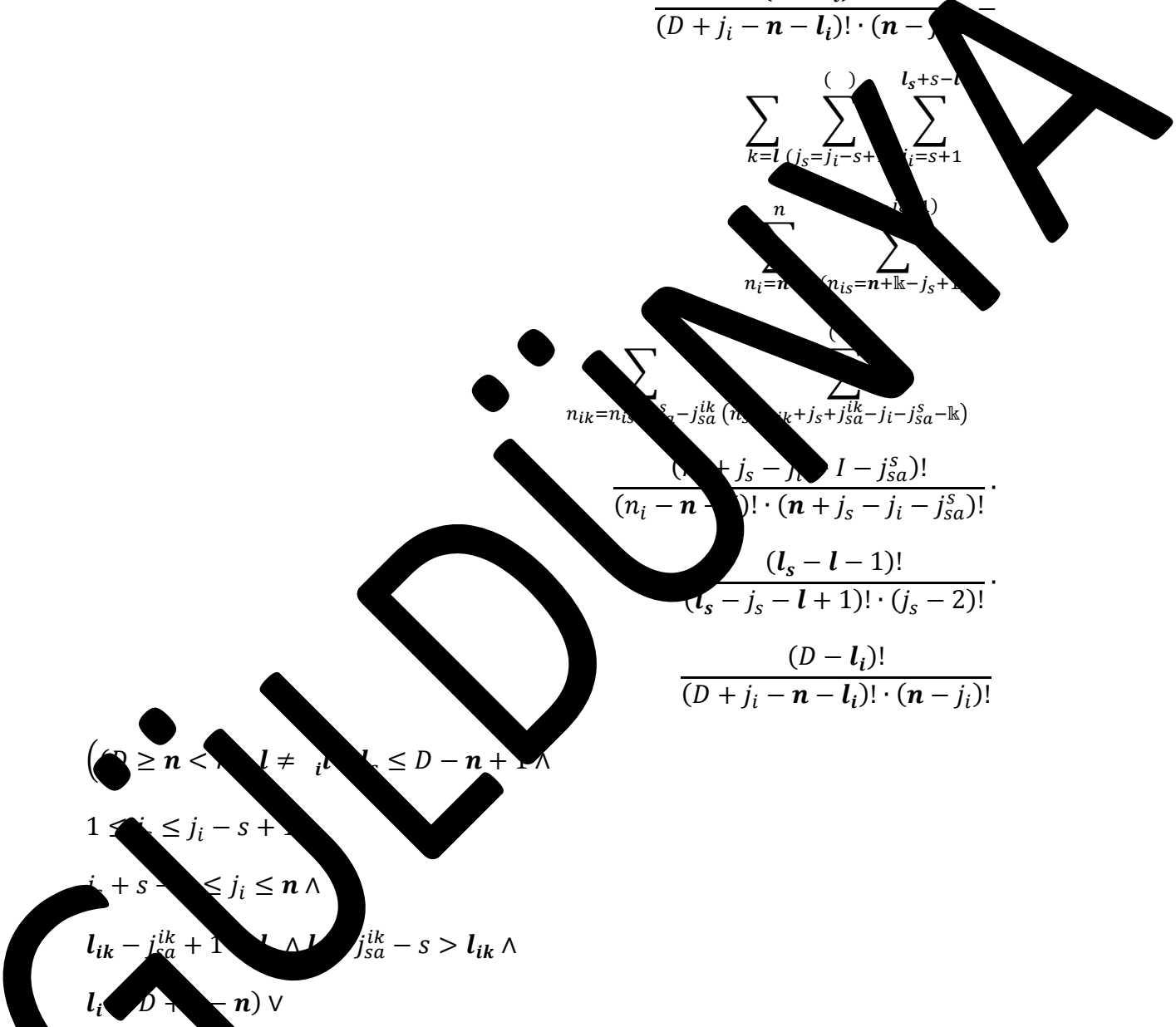
$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{i=s+1}^{l_s+s-l} \sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{()} \sum_{(n_{ik}=n_{is}-j_{sa}^{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{()} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - j_{sa}^s)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n) \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge 1 \leq i \leq j_i - s + 1 \wedge i + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge l_i \leq D + j_{sa}^{ik} - n) \vee (D \geq n < n) \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge 1 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$



$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_i+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-l_k)}^{(n_{ik}+j_s+j_{sa}^{ik}-l_k)}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i + j_s - j_i - l - j_{sa}^s)! \cdot (n_i + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$(D + s - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$(D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOS} \sum_{k=l}^{s+1} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{l_s+s-l}$$

$$\sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{lk})}^{()} \\
 & \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k =$$

$$j_{sa}^s - j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\}$$

$$s \leq j_{sa}^s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{(l_s-l+1)} \sum_{i=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
& \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{(l_s-l+1)}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{()}$$

$$\frac{(n_i+j_s-j_s) \cdot (l-j_s)!}{(n_i-n-j_s) \cdot (n+j_s-j_s) \cdot (j_{sa}^s)!}$$

$$\frac{(l_s-l-1)!}{(j_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D)}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1) \vee$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$(D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$(D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1))$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \binom{n_{ik} + j_s + j_{sa}^{ik} - k}{(n_{ik} + j_s + j_{sa}^{ik} - k)}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - j_s + 1)! \cdot (n_i + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^s + j_{sa}^{ik} = l_s \wedge l_{is} + j_{sa}^{ik} - j_{sa}^s = l_{is} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + n - n \wedge$$

$$D \geq n < n \wedge l = k = n \wedge$$

$$j_{sa}^s \leq j_{sa}^i \wedge$$

$$s: \{i, j\} \wedge$$

$$s \geq 2 \wedge s = \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i - s + 1)} \sum_{(j_s = 2)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = l_i + n - D}$$

$$\sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa+s-l-j_{sa}+1}} \sum_{j_i=l_i+n-D}
\end{aligned}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i+j_s-j_i-l-j_{sa}^s)!}{(n_i-n-l)! \cdot (n+j_s-j_i-j_{sa}^s)!}$$

$$\frac{(l_s-l-j_s-j_{sa}^s-1)! \cdot (l_s-j_{sa}^s-2)!}{(l_s-j_s-j_{sa}^s-1)! \cdot (l_s-j_{sa}^s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-l_i-l)! \cdot (n-j_i-l)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_i = l_{ik} \wedge l_{sa} + j_{sa} - s > 0 \wedge$$

$$D + s - n < l_i \leq D + l_s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s \in \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\begin{aligned}
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l+1} \sum_{j_i=j_s+s-1}^{n-j_s+1} \\
& \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{(n_{is}=n+k-j_s+1)}^{n_{is}+j_s-j_i} \\
& \frac{(n_s - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_s - n_s - 1)!}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}
\end{aligned}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)$$

$$\frac{(n_i+j_s-j_i-I-j_{sa}^s)!}{(n_i-n-I)! \cdot (n+j_s-j_i-j_{sa}^s)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-l)!}$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i + j_{sa} - s \wedge l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{j_s+s-1} \sum_{n_i=n}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}+1} \sum_{n_{ik}=n_{is}-j_{sa}-j_{sa}^{ik}}^{n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l_i)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D > n < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n \wedge l = k = 0 \wedge$

$j_{sa}^{s-1} - j_{sa}^{s-1} - 1 \wedge$

$s: \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{j_i=l_{sa+n+s-D-j_{sa}}}^{n} \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - j_s - l + 1)!}{(j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_{ik-l-j_{sa}^{ik}+2})} \sum_{(j_s=2)}^{l_{sa+s-l-j_{sa}+1}} \sum_{j_i=l_{ik+s-l-j_{sa}^{ik}+2}}^{n} \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik+s-l-j_{sa}^{lk}+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_{is}+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{ik}+j_s+j_{sa}^{lk}-j_i-k)} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - j_s - j_i - j_{sa}^s)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq n - 1$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_i - j_{sa}^k + l_s = l_s \wedge l_s + j_{sa}^{ik} - j_{sa} > l_i \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + n - 1 \wedge$

$D \geq l_i < n \wedge l = k = l_s \wedge$

$j_{sa}^s \leq j_{sa}^i \wedge$

$s: \{1, 2, \dots\} \wedge$

$s \geq 2 \wedge s \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(n_i-j_s+1)} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(n - l_i)!}{(n - j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - j_{sa}^{ik} + 2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{j_{sa}+1} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

$$\sum_{n=(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{j_{sa}+1} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

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$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - j_{sa}^s)!}{(l_s - j_s - j_{sa}^s)! \cdot (l - j_{sa}^s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l - l_i)! \cdot (n - j_i - l)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$

$D + l_s + s - n - l_i + 1 \leq l \leq i - 1$

$1 \leq j_s \leq j_i - s$

$j_s + s \leq j_i \leq n$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + l_i - j_{sa} > l_{ik} - l_i + j_{sa} \wedge l_{sa}$

$D + s - n < l_i \leq D + l_s + s - n - 1$

$D \geq n < n \wedge l = 0$

$j_s^s \leq j_{sa}^l$

$s: \{j_s^s, j_{sa}^l\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik}-l-j_s-2)} \sum_{n_{sa}+n_{sa}+1}^{n_{sa}+n_{sa}+1} \sum_{j_s+s-1}^{j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{ik=n_{is}+j_{sa}^s-j_{sa}^{ik} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$l_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s}^{s, T} = \sum_{(j_s=2)}^{(s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1) l_{sa}+s-l-j_{sa}+1} \sum_{(j_s=2)} \sum_{j_i=l_s+s-l+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{-lk})}^{()} \\
 & \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s \cdot \{j_{sa}^s, j_{sa}^i\}$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n} \sum_{(n_i=n)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\begin{aligned}
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}+s-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(n_{is}+j_s-j_i)} \\
 & \frac{(n_i - j_s - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_s - n_s - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}+s-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(n_{is}+j_s-j_i)} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}
 \end{aligned}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()}^{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})$$

$$\frac{(n_i + j_s - j_i - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$

$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_s}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_i=n_{is}+1)}^{(n_i-j_s+1)} \sum_{(n_s=n_{is}-j_i+1)}^{(n_{is}+j_s-j_i)}$$

$$\frac{(n_{is}-1)!}{(j_s-2)! \cdot (n_{is}-j_s+1)!}$$

$$\frac{(n_s-1)!}{(j_i-j_s+1)! \cdot (n_{is}-j_i)!}$$

$$\frac{(n_s-1)!}{(n_{is}+j_i-1)! \cdot (n-j_i)!}$$

$$\frac{(l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!}$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{(l_s-l-1)}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(n_i+j_s-j_i-l-j_{sa}^s)!}{(n_i-n-l)! \cdot (n+j_s-j_i-j_{sa}^s)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_i - i + 1} \sum_{j_i=s}^{l_i - i + 1} \frac{\binom{n}{j_i - 2} \binom{n - j_i + 1}{n - j_i + 1}}{\binom{n_s - 1}{j_i - 2} \cdot \binom{n_s - j_i + 1}{n_s - j_i + 1}} \cdot \frac{\binom{n_s - j_i - n - 1}{n_s - j_i}}{\binom{l_i - l_s - s + 1}{n - j_i - l_s + 1} \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_i - i + 1} \sum_{j_i=s}^{l_i - i + 1} \frac{\binom{n_i + j_s - j_i - k - j_{sa}^s}{n_i - n - k} \cdot \binom{n + j_s - j_i - j_{sa}^s}}{(D - l_i)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(j_i - n_s - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(j_s - j_i - l + 1)} \sum_{j_i = l_i + n - k}^{(l_i + s - j_i - l_s + 1)} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_i - j_s + 1)}^{(n_i - j_s + 1)} \sum_{s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k}}^{(j_{sa}^s - j_{sa}^{ik} - j_s + 1)} \frac{(n - j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq 1 \wedge n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_s + 1 \leq j_i -$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$\geq n - \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\begin{aligned}
f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{ik}+n-D-j_{s\bar{a}}^{ik}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
&\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+k}^{n_{is}+j_s-j_i-k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
&\frac{(l_i - l_s - s + 1)!}{(l_i + l_j - j_s - s)! \cdot (j_i - j_s - s + 1)!} \\
&\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_{ik}-l-j_{s\bar{a}}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
&\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+k}^{n_{is}+j_s-j_i-k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = n + j_s + 1}^{(n - j_s + 1)} \sum_{(n_i + j_s + 1 - j_i - j_{sa}^s - l_k)}^{(n_i - j_i - j_i - l)} \frac{(n_i - j_i - j_i - l)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i - 1 \leq l \leq D - n - 1$$

$$2 \leq j_s \leq j_i - 1$$

$$j_s + 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} - 1 = l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s = \{j_{sa}^s, l_k\} \wedge$$

$$s = 2 \wedge s = s + l_k \wedge$$

$$l_k: z = 1 \Rightarrow$$

$$\begin{aligned}
f_z^{S_{j_s, j_i}^{DOST}} &= \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
&\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j}^{n_{is}+j_s-j_i-k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
&\sum_{k=l} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1} \\
&\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
&\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(\quad)} \\
&\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{l_s+n}^{l_s+s-l} \sum_{l_s+l-1}^{l_s+l-1} \sum_{n_i=n+l}^{n} \sum_{n_s=n-j_s+1}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-l+1}^{n} \sum_{n_i=n+l}^{(n_i-j_s+1)} \sum_{(n_{is}=n+l-k-j_s+1)}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{n}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{n_i - j_s + 1} \sum_{l_{ik} = l_{ik} + n + s - D - j_{sa}^{ik}} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{\mathbb{k} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n-D-j_{sa}^{ik}+1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \frac{(n_i-n_s-1)!}{(j_s-2)! \cdot (n_i-n_s-j_s+1)!} \cdot \frac{(n_i-n_s-1)!}{(j_i-n_s-1)!} \cdot \frac{(n_s-1)!}{(j_i-j_s-1)! \cdot (n_s+j_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{l_s - l} \sum_{j_s=l_{ik}+n_{is}-j_{sa}^{ik}+1}^{j_s} \sum_{j_i=j_s+1}^{n} \sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k}^{n_i - j_s + 1} \binom{n - j_s + 1}{n_{is} - j_s + 1} \sum_{n_{is}=n+l_k}^{n_i - j_s + 1} \sum_{n_{is}=n+l_k}^{n_i - j_s + 1} \binom{n - j_s + 1}{n_{is} - j_s + 1} \sum_{n_{is}=n+l_k}^{n_i - j_s + 1} \binom{n - j_s + 1}{n_{is} - j_s + 1}$$

$$\sum_{n_{is}=n+l_k}^{n_i - j_s + 1} \sum_{n_{is}=n+l_k}^{n_i - j_s + 1} \frac{(n - j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D > n < n \wedge l_s > l_s - n + 1 \wedge 2 \leq j_s \leq j_s + 1 \wedge j_s + 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee (D > n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{i_i}^{DOST} = \sum_{k=l}^{s+1} \sum_{j_s=l_s+n-D}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{l_i+s-l}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_s+n-D}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_s - l - s + 1)!}{(j_s + l_i - l_s - l + 1)! \cdot (j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{l=1}^{()} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{l_s+s-l} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-l_k)}^{()} \\
 & \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - 1)! + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)}$$

$$\frac{(n_i - j_i - n - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(n_i - j_s - 1)!}{(n_i - j_s - 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - 1)! \cdot (l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^s = j_i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_s\} \wedge$$

$$s = j_s + k = s + k \wedge$$

$$k_z: z = 1 =$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_i=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D - n - 1)! \cdot (n - j_i)!} \cdot \sum_{j_s=l_i+1}^n \sum_{j_i=j_s+s-1}^{n-s+1} \sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s+1)} \sum_{k=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+s-l-j_{sa}}^{l_{sa}+s-l-j_{sa}} \sum_{n_i=n+k}^n \sum_{(n_i-j_s+1)}^{(n_i-j+1)} \sum_{n_s=n-j_i+1}^{n_i-j-k} \frac{(n_i - n_{is} - 1)!}{(n_i - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(n_i - j_s - n_s - j_i)!} \cdot \frac{(j_i - 1)!}{(j_i - 1)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{l_i-l+1} \sum_{n_i=n+k}^n \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(n_s + s - j_{sa} + 1)} \sum_{j_i=l_i+n-k}^{(n_s + s - j_{sa} + 1)} \sum_{n_i=n+k}^n \sum_{j_s=j_s+1}^{(n_i - j_s + 1)} \sum_{j_{sa}=n_{is}+j_{sa}^i - j_{sa}^{lk}}^{(n_i - j_s + 1)} \sum_{j_{sa}=n_{ik}+j_{sa}^{lk} - j_i - j_{sa}^{lk}}^{(n_i - j_s + 1)} \frac{(n - j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1$

$1 \leq j_s \leq j_s - s + 1 \wedge$

$j_s + s - 1 \leq j_i$

$l_{ik} - j_{sa}^{lk} + j_{sa}^i = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$D > n < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa}^s = j_{sa}^i - 1 \wedge$

$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$

$s = 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} = & \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-\mathbb{k})}^{()}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - j_s - j_i - j_{sa}^s)! \cdot (n + j_i - j_s - j_{sa}^s)!}$$

$$\frac{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - j_i - n - l_i)! \cdot (n - j_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1$$

$$D + l_s + s - n - l_i + 1 \leq D - n + 1$$

$$2 \leq j_s \leq j_i - s$$

$$j_s + s \leq j_i \wedge n$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_{sa} + j_s - j_{sa}^{ik} \wedge l_{ik} \wedge l_i + j_{sa} - s > l_{sa}$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 1$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = 1 + \mathbb{k} \wedge$$

$$f_z^{SDOST}_{j_s, j_i} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\begin{aligned}
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(j_s + l_i - l - l_s - s + 1)!}{(j_s + l_i - l - l_s - j_i - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=l}^{l_{sa}-l-j_{sa}+2} \sum_{i=l_i+n-D-s+1} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(n_i-j_s+1)} \\
& \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{(j_i=l_{sa}+n+s-j_{sa})}^{l_{sa}+s-l-j_{sa}+1} \sum_{(n_i=n+l_{ik}-j_s)}^{(n_i-j_s)} \sum_{(n_s=n+l_{ik}-j_s)}^{n_{is}+j_s-j_i-1} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i-1} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(j_s - n_s - 1)!}{(j_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{(j_i=l_{ik}+s-l-j_{sa}^{ik}+2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{(n_i=n+l_{ik})}^n \sum_{(n_{is}=n+l_{ik}-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

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$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{k=l}^{()} \sum_{j_i-s+1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i-s+1}^{n-D-j_{sa}} \sum_{n_i=n+1}^n \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{is}=n+k-j_s+1)}^{(n_{is}=n+k-j_s+1)} \sum_{(n_i=n_{is}+j_{sa}-j_{sa}^{ik})}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \geq D - l + 1 \wedge$$

$$2 \cdot j_s \leq j_s - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$s = 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - n - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l_s + 1)!}{(j_s + l - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

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$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik} - l - j_{sa}^{lk} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}^{(j_s + 1)} \sum_{n_i = n + j_s + 1}^{(n + j_s + 1)} \sum_{(n_{ik} = n_{is} + j_{sa} - n_{is} + j_s + 1 - j_i - j_{sa}^s - lk)} \frac{(n_i - j_i - l)!}{(n - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l + s - n - l_i - 1 \leq l \leq D - n - 1$$

$$2 \leq j_s \leq j_i - 1$$

$$j_s + 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{lk} - 1 = l_s \wedge l_{sa} \wedge j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s = \{j_{sa}^s, lk\} \wedge$$

$$s = 2 \wedge s = s + lk \wedge$$

$$lk_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_{zS}^{DOST}_{j_s, j_i} &= \sum_{k=l}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-lk} \\
 &\quad \sum_{n_i=n+lk}^n \sum_{(n_{is}=n+lk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-lk} \\
 &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\quad \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 &\quad \frac{(n_s - 1)!}{(n_s + j_i - l - 1)! \cdot (n - j_i)!} \cdot \\
 &\quad \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\quad \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\quad \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 &\quad \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(n_{is}+j_s-j_i-lk)} \\
 &\quad \sum_{n_i=n+lk}^n \sum_{(n_{is}=n+lk-j_s+1)}^{(n_i-j_s+1)} \\
 &\quad \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-lk)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-lk)}^{(n_i-j_s+1)} \\
 &\quad \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
 &\quad \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\quad \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s-l+1}^{j_i-l_k} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l_k} \\
 & \frac{(n_{is}-1)!}{(j_s-l_s+1)! \cdot (n_i-l_s+1)!} \cdot \\
 & \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \\
 & \frac{(n_s-1)!}{(n-l_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}
 \end{aligned}$$

GÜLDENWA

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l_s \geq 0 \wedge$$

$$j_{sa}^s = j_s - 1 \wedge$$

$$s: \{j_{sa}^s, l_k, j_{sa}^s\} \wedge$$

$$s = j_s - l_k = s + l_k \wedge$$

$$l_{k_z}: z = 1 =$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(n - l_i)!}{(n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{\Delta} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{\Delta-1} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

$$\sum_{n+l_{sa}+n-D-j_{sa}+1}^n \sum_{n+l_k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{\Delta} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{\Delta}$$

GÜLDENWA

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i+j_s-j_i-I-j_{sa}^s)!}{(n_i-n-I)! \cdot (n+j_s-j_i-j_{sa}^s)!}$$

$$\frac{(l_s-l-j_{sa}^s)!}{(l_s-j_s-j_{sa}^s)! \cdot (l_s-j_{sa}^s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-l_i-l)! \cdot (n-j_{sa}^s)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_s}^{+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_i-j_s+1)}$$

$$\frac{(j_s-2)! \cdot (n_{is}-n_{is}-1)!}{(i-j_s-1)! \cdot (n_{is}-j_i)!}$$

$$\frac{(n_s-1)!}{(n+j_i-1)! \cdot (n-j_i)!}$$

$$\frac{(l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!}$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)}$$

$$\frac{(n_i+j_s-j_i-l-j_{sa}^s)!}{(n_i-n-l)! \cdot (n+j_s-j_i-j_{sa}^s)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

GÜLDÜNYA

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{l=1}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

GÜLDÜMBA

$$\begin{aligned}
 & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{n_{is}+j_s-j_i-l_k} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=s+1}^n \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
 & \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l \neq i \wedge l_i \leq D - n + 1 \wedge$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DO} = \sum_{k=l}^{(l_{ik}-j_{sa}^{ik}+2)} \sum_{j_s=2}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n} \sum_{n_i=n+k}^{n-j_s+1} \sum_{n_{is}=n+k-j_s+1}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \frac{(j_i-j_s-1)! \cdot (n_i-n_{is}-j_s+1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_{is}-n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(n_s-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_s-l-1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(l_i-l-s+1)!}{(D+l_i-n-l_i)! \cdot (n-j_i)!} \cdot \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=2}^{(n_i-j_s+1)} \sum_{j_i=j_s+s-1}^{n} \sum_{n_i=n+k}^{n_{is}=n+k-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()}^{()} \frac{(n_i + j_s - j_i - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + 1 \wedge$$

$$k: z = 1 =$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1) l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{(j_s=2)} \sum_{j_i=l_i+n-D} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l-l+1} \sum_{i=l_{ik}+s-j_{sa}^{ik}+2}^{j_s-1}$$

$$\sum_{n_i=n+l-k}^n \sum_{(n_{is}=n+l-k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{j_i-k}$$

$$\frac{(n_i - j_s + 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_i+n-D}^{()}$$

$$\sum_{n_i=n+l-k}^n \sum_{(n_{is}=n+l-k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-k)}^{()}$$

GÜLDÜZ

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\begin{aligned}
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)}^{l_i - l + 1} \sum_{j_i = j_s + s - 1}^{n_i - j_s + 1} \\
 & \sum_{n_i = n + lk}^n \sum_{(n_{is} = n + lk - j_s)}^{(n_i - j_s + 1)} \sum_{n_i = j_i + 1}^{n_i + j_s - j_i - lk} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - j_s - 1)! \cdot (n_{is} + j_s - j_i)!}{(n_i + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(D - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)}^{(n_i - j_s + 1)} \sum_{j_i = j_s + s - 1}^{(n_i - j_s + 1)} \\
 & \sum_{n_i = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_i - j_s + 1)} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - lk)}^{(n_i - j_s + 1)} \\
 & \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot
 \end{aligned}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_i - l + 1} \sum_{j_i = l_i + n - D}^{n} \sum_{n_i = n + \mathbb{k}}^{(n_i - j_s + 1)} \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{n_{is} + j_s - j_i - \mathbb{k}} \sum_{n_s = n - j_i + 1}^{(n_i - n_{is} - 1)!} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-l_i-l_k)}^{(n_{ik}+j_s+j_{sa}^{ik}-l_i-l_k)}$$

$$\frac{(n_i + j_s - j_{sa}^s - l + j_{sa}^s)!}{(n_i + j_s - j_{sa}^s - l + j_{sa}^s)!}$$

$$\frac{(l_s - l_i)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq -n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq l_i \wedge$$

$$l_i - j_{sa}^{ik} + l_i \geq l_s \wedge l_i - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq l_i < n \wedge l = k \geq l_s \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$s: \{j_s, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = l_i + k \wedge$$

$$l_i \geq l_s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{l_s-l+1} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{s\bar{a}}+1} \sum_{j_i=l_s+s-l+1}^{n_{is}+j_s-j_i-l_k} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$\sum_{k=l}^{(\cdot)} \sum_{(j_s=j_i-s+1)}^{(\cdot)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\cdot)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k)}^{(\cdot)}$$

$$\frac{(n_i+j_s-j_l-l-j_s)!}{(n_i-n-l_k)!(n+j_s-j_l-j_{sa}^s)!} \cdot \frac{(l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(D-l-j_s+1)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge$$

$$D + s - n < l_i \leq l_s + s - n - l_k \wedge$$

$$D > n < n \wedge l = k \geq 0$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s = \{j_{sa}^s, l_{ik} - j_{sa}^{ik}\} \wedge$$

$$s = 2 \wedge s = j_s - l_k \wedge$$

$$l_k = 1$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(\cdot)} \sum_{(j_s=2)}^{(\cdot)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_{ik}+n-D-j_s^{ik}+1}^{j_s^{ik}+1} \sum_{j_i=j_s+s-1}^{j_s^{ik}+1}$$

$$\sum_{n_i=n+l_k-j_s+1}^n \sum_{n_{is}=n-j_i+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_{ik}+n-D-j_s^{ik}+1}^{j_s^{ik}+1} \sum_{j_i=j_s+s-1}^{j_s^{ik}+1}$$

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$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l - l_i)! \cdot (n - j_i - l)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, l_k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge l = s + l_k \wedge$$

$$l_k: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{k=l}^{l_s-l} \sum_{n_{ik}+n_{is}+j_{sa}^{ik}+j_{sa}^{ik}+l_i = j_s+s-1} \sum_{n_i=n+1}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{i_k=n_{is}+j_{sa}^{ik}-j_{sa}^{ik} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D > n < n) \wedge l_s \leq D - n + 1 \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_i + s - j_s \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge \\ & l_i \leq D + s - n) \vee \\ & (D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \end{aligned}$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \vee$$

$$D \geq n < n \wedge l \neq l \wedge l_k \geq l_s \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = l + k \wedge$$

$$k = l \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{i_s}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-k}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=l}^{(l_s)} \sum_{s=2}^{l_s+l+1} \sum_{j_i=l_s+s-l+1}^{n_{is}+j_s-j_i-k} \\
& \sum_{n=n+l}^n \sum_{n_s=n+l-k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)} \sum_{j_i=s+1}^{l_s+s-l}
\end{aligned}$$

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$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{()}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - j_s - 1)! \cdot (l_s - l - j_s - 2)!}{(l_s - j_s - 1)! \cdot (l_s - l - j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

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$$fz = \sum_{k=l}^{l+1} \sum_{j_s=2}^{j_s+s-1} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{n_s+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=2}^{j_s+s-1} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k}} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{j_i=1}^{(j_i-s+1)} \sum_{(j_s=2)}^{s-l} \sum_{j_i=1}^{n} \sum_{n_i=n+\mathbb{k}}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{n} \sum_{n_i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

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$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l_i}^{l_s+s-1} \sum_{n_i=n+l_i-k}^{n} \sum_{n_{is}=n+l_i-k-j_s+1}^{(n_i - j_s + 1)} \sum_{i_k=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n - l + 1 \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n - l + 1 \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = \dots + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)}^{l + 1} \sum_{j_i = j_s + s - 1}^{n - j_s + k} \frac{(n_i - j_s + k)! \cdot (n_{is} + j_s - j_i - k)!}{(n_i - n + k)! \cdot (n_{is} - n + k - j_s + s - 1)! \cdot (j_i + 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)}^{l + 1} \sum_{j_i = j_s + s - 1}^{n - j_s + k} \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)} \frac{(n_i+j_s-j_i-l-j_{sa}^s)!}{(n_i-n-l)! \cdot (n+j_s-j_i-j_{sa}^s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-l)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_{z=1}^{OST} = \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=2}^{(l_s-l+1)} \sum_{j_i=l_i+n-D}^{(l_s-l+1)}$$

$$\sum_{n_i=0}^n \sum_{n_{is}=n+k-j_s+1}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_i+n-D-s+1}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{(l_s-l+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i + j_s - j_i - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - 1)! \cdot (j_s - 2)!}{(l_s - j_s - 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_i = l_{ik} \wedge l_{sa} - s > 0 \wedge$

$D + s - n < l_i \leq D + l_s - n - 1 \wedge$

$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa}^s = j_{sa}^i - 1 \wedge$

$s = (j_{sa}^s, \mathbb{k}, j_{sa}^i)$

$s = 2 \wedge s = s + \mathbb{k}$

$\mathbb{k}_z: z = \dots \Rightarrow$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+1)} \sum_{(j_s=2)}^{l_i-l} \sum_{j_i=l_{sa}+s-l-j_s}^{l_i-l} \frac{(n_i-j_s+k)! \cdot (n_{is}+j_s-j_i-k)!}{(n_i+n+k)! \cdot (n_{is}+n+k-j_s+k)! \cdot (j_i+1)!} \cdot \frac{(n_s - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - 1)!}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-k}} \frac{(n_i+j_s-j_i-I-j_{sa}^s)!}{(n_i-n-I)! \cdot (n+j_s-j_i-j_{sa}^s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-l)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} \wedge l_i + j_s - s > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1$$

$$D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + 1 \wedge$$

$$k: z = 1 =$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{\binom{()}{j_s=2}}^{l_i-l+1} \sum_{j_i=l_i+n-D} \sum_{n_i=n+k}^n \sum_{\binom{()}{n_{is}=n+k-j_s+1}}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_i-l_k} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{(n_i-l_k)} \\
 & \frac{(n_{is}-1)!}{(j_s - 1)! \cdot (n_i - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}
 \end{aligned}$$

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$$\frac{(n_i + j_s - j_i - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} -$$

$$D + s - n < l_i \leq D + l_s + s - n -$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^{(j_s+1)} \sum_{n_i=n}^n \sum_{n_{ik}=n_{is}+1}^{(n_{ik}+j_s)} \sum_{(n_{ik}+j_s-k-j_i-j_{sa}^s-k)}^{(n_{ik}+j_s-k-j_i-j_{sa}^s-k)} \frac{(n_{ik}+j_s-k-j_i-j_{sa}^s-k)!}{(n_{ik}+j_s-k-j_i-j_{sa}^s-k)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - s + 1 \wedge$$

$$1 \leq j_i \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_s \leq n \wedge$$

$$l_{ik} + j_{sa}^{ik} + 1 = l_s \wedge l_{ik} + j_{sa}^{ik} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$j_s + s - 1 \leq l_i \leq D + s - n - 1 \wedge$$

$$D \geq n < n \wedge l_s \leq D - s + 1 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s \in \{j_{sa}^s, \mathbb{k}\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_{sa}^{lk}+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik+s-l-j_{sa}^{lk}+1}} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{n_{is}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - j_s - l + 1)!}{(j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_{ik}-l-j_{sa}^{lk}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{ik}+s-l-j_{sa}^{lk}+2}^{l_{sa}+s-l-j_{sa}+1} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_{is}+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{ik}+j_s+j_{sa}^{ik}-j_i-k)} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - j_s - j_i - j_{sa}^s)! \cdot (n + j_s - j_i - j_{sa}^s)!} \frac{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}{(l_s - l_i)!} \frac{(l_s - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq n - 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - j_{sa}^k + j_{sa}^s = l_s \wedge l_s + j_{sa}^{ik} - j_{sa} > l_i \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$D \geq l_i < n \wedge l = k \geq 1 \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$s: \{1, \dots, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = j_{sa}^i + k \wedge$$

$$k \geq 1 \Rightarrow$$

$$fz_{j_s j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l_s-l}^{l_s-l+1} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(n-j_s+1)} \sum_{n_i=n+l_k}^{(n_i=n+l_k-j_s)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k)} \frac{(n_i+j_s-j_l-j_{sa}^s)!}{(n_i-n-l_k)!(n+j_s-j_l-j_{sa}^s)!} \cdot \frac{(l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)!} \frac{(D-l)}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s + j_{sa}^s + j_{sa}^{ik} - j_{sa}^s - l_k + j_{sa} - s = l_{sa} \wedge$$

$$D - s - n < l \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = 0 \wedge$$

$$l_s = j_{sa}^s - 1 \wedge$$

$$s: \{j_{sa}^s, l_k, j_{sa}^i\}$$

$$s = 2 \wedge s = s + l_k \wedge$$

$$l_k: z = 1$$

$$f_z^{SDOST}_{j_s, j_i} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l - l_s - s + 1)!}{(j_s + l_i - l_s - l - s + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{i=1}^{l-1} \sum_{j_s=n-D-j_{sa}+1}^{l-j_{sa}+2} \sum_{j_i=j_s+s-1}^n \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_i-j_s+1)} \\
 & \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + 1 \wedge$$

$$k: z = 1 \wedge$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s-l+1}^{j_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l_k}$$

$$\frac{(n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

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$$\frac{(n_i + j_s - j_i - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D > n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$s \in \{j_{sa}^i, j_{sa}^s\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOST} = & \sum_{k=l} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{(l_s - l - 1)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i = n + k}^n \sum_{(n_{is} + k - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_{ik} + j_s + j_{sa}^s - k)}^{(n_i - k)}$$

$$\frac{(n_i + j_s - j_s - l - j_{sa}^s)!}{(n_i - k)! \cdot (n_i - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1) \vee \right.$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=2)}^{l_{sa}+s-1} \sum_{j_{sa}=n+s-D-j_{sa}}^{l_{sa}+s-1} \sum_{n_i=1}^n \sum_{(n_{is}=n+k-j_s+1)}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{()}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - j_s - 1)! \cdot (l_s - l - j_s - 2)!}{(l_s - j_s - 1)! \cdot (l_s - j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz^S_{j_s} = \sum_{k=i}^{\binom{()}{l}} \sum_{j_s=1}^{l_i - i^{l+1}} \sum_{j_i=1}^{n} \sum_{n_s=n-k}^{(n_i - j_i - k + 1)} \sum_{(n_s = n - j_i + 1)} \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$\sum_{k=i}^{\binom{()}{l}} \sum_{j_s=1}^{l_i - i^{l+1}} \sum_{j_i=1}^{n} \sum_{n_i=n+k}^{(n_{ik} = n_i - j_s - j_{sa}^{ik})} \sum_{n_s=n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k}$$

$$\frac{(n_i + j_s - j_i - \mathbb{k} - j_{sa}^s)!}{(n_i - n - \mathbb{k})! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz^{QST} = \sum_{k=l}^{(j_i - s + 1)} \sum_{j_i = l_i + n - D - j_{sa}^{ik} + 1}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n - l_k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{ik}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
 & \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{SDOST} = \sum_{k=l}^{(l_i+n-s)} \sum_{(l_{ik}+n-j_s+1)}^{l_i-l+1} \sum_{n_i=n+k}^{n} \sum_{(n_{is}=n+k-j_s+1)}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{n_i-n_{is}-1} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^n \sum_{(n_i=n+k}^{(n_i-j_s+1)} \sum_{(n_{is}=n+k-j_s+1)}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{n_i-n_{is}-1}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_s - 1)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i - 1)! \cdot (n - j_i)!} \cdot \\
& \sum_{\substack{l_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} \\ (j_s = l_i + l - s + 1) \\ j_i = j_s + s - 1}} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \\
& \sum_{l_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{()} \\
& \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{\binom{l_{ik}-l-j_{sa}^{ik}+2}{j_s=l_{ik}+n-j_{sa}^{ik}+1}} \sum_{j_i=l_{ik}+n-D}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}-j_s}^{n_i=n-j_i+1} \frac{(n_i - j_s + 1)!}{(j_s - 2)! (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{\binom{l_{ik}-l-j_{sa}^{ik}+2}{j_s=l_i+n-D-s+1}} \sum_{j_i=j_s+s-1}^{n_i-j_s+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{()}$$

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$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i - l_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s}^D = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_s + n - D)}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{j_i = l_s + s - l + 1}$$

$$\sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{= n - j_i + 1}^{n_{is} + j_s -}$$

$$\frac{(n_i - n_{is} -)}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i - l_i + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_i - 1)!} \cdot$$

$$\frac{(n_s - j_i - n - l_i - j_s - l_i - j_i)!}{(n_s - j_i - n - l_i - j_s - l_i - j_i)!} \cdot$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{()} \sum_{(j_s = j_i - s + 1)}^{()} \sum_{j_i = l_{ik} + n + s - D - j_{sa}^{ik}}^{l_s + s - l}$$

$$\sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{()}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{i_i}^{DOST} = \sum_{k=l}^{n+n-D-j_s} \sum_{(j_s=l_{ik}+n-D)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n} \sum_{n_i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_s}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - l_k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - l_k - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \\
 & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
 & \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{j_s=l_s+n-D}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{n_i+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+n_{is}-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_s+n-D}^{l_i-l+1} \sum_{j_i=s-l+1}^{l_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l_k}$$

$$\frac{(n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

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$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\ & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \\ & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\ & D \geq n < n \wedge l = 0 > 0 \wedge \\ & j_{sa}^{ik} = j_{sa}^{s-1} - 1 \wedge j_{sa}^s \leq j_{sa}^{s-1} - 1 \wedge \\ & \mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_i^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge \\ & s > n - l_i = s + \mathbb{k} \wedge \\ & \mathbb{k}_z: z = 1 = \dots \end{aligned}$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n-D} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}$$

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$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i + j_s - j_i - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 < j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_{is}-\mathbb{k}+1)}^{(n_i-j_s+1)} \sum_{(n_s=n_s-j_i+\mathbb{k})}^{(n_i-j_s+1)}$$

$$\frac{(j_s-2)! \cdot (n_{is}-j_s+1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s)!} \cdot \frac{(n_s-1)!}{(n+j_i-1)! \cdot (n-j_i)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!}$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_i+j_s-j_i-l-j_{sa}^s)!}{(n_i-n-l)! \cdot (n+j_s-j_i-j_{sa}^s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz^{j_s} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{l_i-l+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l - l_s - s - 1)!}{(j_s + l_i - l - l_s - j_i - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=0}^{()} \sum_{s=j_i-s+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^{()} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()} \\
 & \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{sa}+D-j_{sa}+1)}^{l_i-l+1} \sum_{j_l=D}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i+n-D-s)! \cdot (l_i-l+1)!}{(j_s-2)! \cdot (n_i-n_{is}-1)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is})! \cdot (n_s - \mathbb{k} - 1)!}{(j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!}$$

$$\sum_{n_{is}=n+l_i}^{(l_{sa}-l_i+2)} \sum_{j_s+l_i=j_s+s-1}^{n_{is}-j_s+1} \sum_{n_i=n+l_i}^{n} \sum_{n_{is}=n+l_i-j_s+1}^{n_{is}-j_s+1}$$

$$\sum_{i_k=n_{is}+j_{sa}-j_{sa}^{ik} \ (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_i > D - n + 1 \wedge$$

$$D - n_s + j_s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_{sa}^s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{SDOST} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{j_i=l_i+n}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_{is}+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{+j_s-j_i-\mathbb{k}}$$

$$\frac{(j_s-2)! \cdot (n_{is}-j_s+1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s)!} \cdot \frac{(n_s-1)!}{(n+j_i-1)! \cdot (n-j_i)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!}$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^n \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\)}$$

$$\frac{(n_i+j_s-j_i-l-j_{sa}^s)!}{(n_i-n-l)! \cdot (n+j_s-j_i-j_{sa}^s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^l - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^l\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^l\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SDG} = \sum_{l=j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{j_s-1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_{sa}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - l_k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_i-j_s+1)} \\
 & \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{j_s=l_{ik}+1}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{j_{sa}^i=j_{sa}^{ik}+1}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{j_{sa}^s=D-j_{sa}}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(l_{sa}+s-l-j_{sa}+1)}$$

$$\sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=0}^{l_i - j_s - 1} \sum_{j_i = j_s + s - 1}^{l_i - j_s + k} \sum_{n_i = n + \mathbb{k}}^n \sum_{n_{is} = n + \mathbb{k} - j_s + 1}^{(n_i - j_s + 1)}$$

$$\sum_{ik = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{()}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$l_s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S^{DOST}} = \sum_{k=l}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1, \dots, l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+n-D-j_{sa}+1} \sum_{(j_s=j_s+1, \dots, n)}^n \sum_{(n_{is}=n+\mathbb{k}-j_s, \dots, n_s=n-j_i+1)}^{n_{is}=n+\mathbb{k}-j_s} \frac{\binom{n_i}{j_s-2} \binom{n_i-n_{is}}{j_s+1}}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(j_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

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$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i - 1)!}$$

$((D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$

$D \geq n < n \wedge l_s > 0 \wedge$

$j_{sa}^{ik} = j_s - 1 \wedge j_{sa}^s \leq j_s - 1 \wedge$

$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s > j_{sa}^{ik} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 =$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{j_i=l_{sa}+n+s-D-j_{sa}} \sum_{l_s=s-l}^{l_s+s-l} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i + j_s - j_i - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - j_{sa}^s)!}{(l_s - j_s - j_{sa}^s - 1)! \cdot (l_i - j_{sa}^s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - j_{sa}^s - l_i)! \cdot (n - j_{sa}^s)!}$$

$((D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D > n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$

$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s > 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\begin{aligned}
fzS_{j_s, j_i}^{DOST} = & \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s - l - 1)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1} \sum_{n_i = n + k}^n \sum_{(n_{is} + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{ik} + j_s + j_{sa}^{ik} - l_k)}^{()} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - j_s - l)! \cdot (n_i - j_i - j_{sa}^s)!} \frac{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}{(l_s - l)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l_s > D - n + 1) \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1) \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \wedge n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_{sa} + j_{sa} - j_s \wedge l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee \\ & ((D \geq n < n \wedge l_s > D - n + 1) \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1) \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \wedge n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_{sa} \wedge l_{sa} + j_{sa} - j_s = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee \\ & ((D \geq n < n \wedge l_s > D - n + 1) \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1) \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \end{aligned}$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l-1)} \sum_{j_i=l_s+n-D}^{l_s+s-1} \sum_{j_s=l_s+n-D-j_{sa}}^{l_s+s-1} \frac{(n_i - j_s - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(n_i - n_{is} - \mathbb{k} - 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-lk}} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(D - l_s)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq D + s - n \wedge$

$D \geq n < n \wedge l = lk > 0 \wedge$

$j_{sa}^{lk} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, lk, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{lk}, lk, j_{sa}^i\} \wedge$

$s > 2 \wedge s = s + 1 \wedge$

$lk : z = 1 =$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1) l_{ik}+s-l-j_{sa}^{lk}+1} \sum_{(j_s=2)} \sum_{j_i=s+1} \sum_{n_i=n+lk}^n \sum_{(n_{is}=n+lk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-lk} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - lk - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - lk)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$



$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l-l+1} \sum_{j_i=l_{ik}+s-j_{sa}^{ik}+2}$$

$$\sum_{n_i=n+l-k}^n \sum_{(n_{is}=n+l-k-j_s+1)}^{(j_s+1)} \sum_{n_s=n-j_i+1}^{j_i-k}$$

$$\frac{(n_i - n_s - k)!}{(j_s - 1)! \cdot (n_i - n_s - k + 1)!}$$

$$\frac{(n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=s+1}$$

$$\sum_{n_i=n+l-k}^n \sum_{(n_{is}=n+l-k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-k)}^{()}$$

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$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i - l_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_i-n+l} \sum_{(n_{is}=n+l-k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i+l_k)}^{(n_{ik}+j_s+j_{sa}^{ik}-j_i+l_k)} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i + j_s - j_i - l - j_{sa}^s)!} \frac{(l_s - l)}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq n - 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - j_{sa}^{ik} + 1 = l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + 1 - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 1 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$S: \{j_{sa}^i, \dots, k, j_{sa}^i\} \vee S: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = j_i + k \wedge$$

$$k \geq 2 \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)} l_{ik+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{i_s}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
 & \frac{(n_{i_s} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s - l + 1)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{s=2}^{(l_{ik} - j_{s\bar{a}}^{ik} + 2)} \sum_{j_i=l_{ik}+s-l-j_{s\bar{a}}^{ik}+2}^{l_i-l+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{i_s}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
 & \frac{(n_{i_s} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{ik+s-l}-j_{sa}^{ik}+1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k)}^{()} \frac{(n_i+j_s-j_l-l-j_s)!}{(n_i-n-l_k)! \cdot (n+j_s-j_l-j_{sa}^s)!} \cdot \frac{(l_s-l-1)!}{(j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(D-l)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - j_{sa}^s \geq l_{ik} \wedge$$

$$D + s - n < l_i \leq l_s + s - n - l_k \wedge$$

$$D \geq n < n \wedge l = k > 0$$

$$j_{sa}^{ik} - j_{sa}^i - 1 \wedge j_{sa}^s - j_{sa}^{ik} - 1$$

$$S: \{j_{sa}^s, \dots, l_k, j_{sa}^i\} \vee S: \{j_{sa}^i, \dots, j_{sa}^{ik}, l_k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = j_s - l_k \wedge$$

$$l_k = 1$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(n - l_i)!}{(n - j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{j_s=l_i+n-D-s+1}^{j_s+l_i+n-D-s+1} \sum_{j_i=j_s+s-1}^{l+1}$$

$$\sum_{n_{is}=n+\mathbb{k}-j_s+1}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_i+n-D-s+1}^{j_s+l_i+n-D-s+1} \sum_{j_i=j_s+s-1}^{l+1}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i+j_s-j_i-l-j_{sa}^s)!}{(n_i-n-l)! \cdot (n+j_s-j_i-j_{sa}^s)!}$$

$$\frac{(l_s-l-j_{sa}^s)!}{(l_s-j_s-j_{sa}^s)! \cdot (l-j_{sa}^s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = i > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^l - j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^l\} \vee \{j_{sa}^s, \dots, j_{sa}^{ik}, j_{sa}^l\} \wedge$$

$$s > 2 \vee s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{k=0}^{(l_{ik} - l_{is} - \mathbb{k} + 2)} \sum_{i_s=l_i+k-1}^{j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{i_k=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}) \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_s}^{l_s+s-l}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(j_i - i_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}{(j_i - i_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i + l_s - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-l+1}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{ik}+n+l_s-l}^{()} \sum_{n_i=n}^{()} \sum_{n_{is}=n+l_k-j_s+1}^{()} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n, l \neq i, l \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} - j_{sa}^{ik} - s = l_{ik} \wedge$

$D - l_s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n, l = k > 0 \wedge$

$j_{sa} - j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$

$s > 2 \wedge s = s + k \wedge$

$k_z: z = 1 \Rightarrow$

$$\begin{aligned}
 f_{j_s, j_i}^{S_{DOST}} = & \sum_{k=l}^{(l_{ik}+n-D-j_{s\bar{a}}^{ik})} \sum_{(j_s=2)}^{(n_i-j_s+1)} \sum_{j_i=l_{ik}+n+s-D-j_{s\bar{a}}^{ik}}^{l_{ik}+s-l-j_{s\bar{a}}^{ik}+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{s\bar{a}}^{ik}+1)}^{(n_i-j_s+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{s\bar{a}}^{ik}+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)} \sum_{j_i = j_s + s - 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_{is} + j_{sa}^s - j_{sa}^{ik} + j_s + j_{sa}^{ik} - j_i - \mathbb{k})} \frac{(n_j + j_s - j_{sa}^s - l - j_{sa}^s)!}{(n_i + j_s - j_{sa}^s - l - j_{sa}^s)!} \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq n - 1$

$D + l_s + s - n - l_i + 1 \leq l_s - l - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i - 1 \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s - l_i + j_{sa}^s - s - j_{sa}^{ik} \wedge$

$D + s - n < l_i \leq D + s - n - 1 \wedge$

$D \geq n < n - l = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} - j_s^s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, j_{sa}^s\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s + \mathbb{k} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = 2)}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{j_i = l_{ik} + n + s - D - j_{sa}^{ik}}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l - l_s - s - 1)!}{(j_s + l_i - l - l_s - i - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(i=j_s+k+n-D-j_{sa}^{ik}+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{n} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_i-j_s+1)} \\
 & \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D > n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}^{n_i} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
&\frac{(n_{i_s} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i - l_k)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{n_i} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
&\frac{(n_{i_s} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i - l_k)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{(j_s=j_{i-s+1})} \sum_{j_i=s+1}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{i+s+l_k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-l_k)}^{(n_{ik}+j_s+j_{sa}^{ik}-l_k)}$$

$$\frac{(n_i + j_s - j_{sa}^{ik} - l - j_{sa}^{ik})!}{(n_i + j_s - j_{sa}^{ik} - l - j_{sa}^{ik})! \cdot (n_i + j_s - j_{sa}^{ik} - l - j_{sa}^{ik})!}$$

$$\frac{(l_s - j_{sa}^{ik} - l + 1)! \cdot (j_s - 2)!}{(l_s - j_{sa}^{ik} - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} \leq n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\}$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1}^{(l_s-l+1)}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik})}^{()}$$

$$\frac{(n_i + j_s - j_s - j_s + 1)!}{(n_i - n - j_s - j_s - j_s - j_s)! \cdot (n + j_s - j_s - j_s - j_s)!}$$

$$\frac{(j_s - l - 1)!}{(j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D + j_s - n - l_i)! \cdot (n - j_i)!}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$

$D + j_{sa}^{ik} - s \leq l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_{z=j_s}^{OST} = \sum_{k=l}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{j_i+s-l} \sum_{n_i=0}^n \sum_{n_{is}=n+k-j_s+1}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=2}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l - l_s - s + 1)!}{(j_s + l_i - l_s - l - s + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{l=1}^{()} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{l_s+s-l} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
 & \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$D \geq n < n \wedge l = i \wedge s > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s \leq j_{sa}^s - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_z, j_i\} \vee s: \{l_i, \dots, j_{sa}^{ik}, \mathbb{k}_z, j_{sa}^i\} \wedge$$

$$s > 0 \wedge \mathbb{k}_z = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 =$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n = n + \mathbb{k}}^n \sum_{n_s = n + \mathbb{k} - j_s + 1}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

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$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{s+1})}^{(\quad)}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - j_{sa}^s)!}{(l_s - j_s - j_{sa}^{s-1})! \cdot (l_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - j_s - l_i)! \cdot (n - j_s)!}$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_{ik} \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{j_s, l_s}^{DOST} \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k)}^{()}$$

$$\frac{(n_i+j_s-j_s-l-j_s)!}{(n_i-n-l_k)! \cdot (n+j_s-j_s-l_k)! \cdot (j_{sa}^s)!}$$

$$\frac{(l_s-l-1)!}{(j_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D)}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - l_{sa} = l_{ik} \wedge l_{sa} - j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq l_s + s - n - l_k \wedge$$

$$D > n < n \wedge l_k > 0$$

$$j_{sa}^{ik} - j_{sa}^i - 1 \wedge j_{sa}^s - j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, l_k, j_{sa}^i\} \vee s: \{j_{sa}^i, \dots, j_{sa}^{ik}, l_k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = j_{sa} - l_k \wedge$$

$$l_k = j_{sa} - s$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{n} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{sa+s-l-j_{sa}+1}}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i + j_s - j_i - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_i = l_{ik} \wedge l_{sa} - s > 0 \wedge$$

$$D + s - n < l_i \leq D + l_s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge$$

$$S: \{j_{sa}^s, \dots, \mathbb{k}\} \vee S: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k}$$

$$\mathbb{k}_z: z = \dots \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l+1} \sum_{j_i=j_s+s-1}^{n_i+j_s-j_i-k} \frac{(n_i - j_s + k)! \cdot (n_{is} + j_s - j_i - k)!}{(n_i + k)! \cdot (n_{is} + k - j_s + 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^n \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()}^{()} \frac{(n_i + j_s - j_i - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i + j_{sa} - s \wedge l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \wedge s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = \dots + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n} \sum_{(n_i-j_s+1)}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{(n_s=n-j_i+1)} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l_s+2)} \sum_{(j_s=l_i, \dots, D-s+1)} \sum_{j_i=j_s+1}^n \sum_{n_i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_i-j_s+1)}^{()} \sum_{n_i=n+\mathbb{k}}^{(n_i-j_s+1)} \frac{(n - j_s - j_i - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_{sa} - s + 1 \wedge$

$j_s + 1 \leq j_i \leq j_{sa} - s + 1 \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$l_s + s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_{s_a}^{ik}+1}} \sum_{j_i=l_{sa+n+s-D-j_{sa}}}^{n_{is+j_s-j_i}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}-n_s-1} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l - 1)!}{(l_s + j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l - l_s - s + 1)!}{(j_s + l - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik-l-j_{s_a}^{ik}+2})} \sum_{(j_s=2)}^{l_{sa+s-l-j_{sa}+1}} \sum_{j_i=l_{ik+s-l-j_{s_a}^{ik}+2}}^{n_{is+j_s-j_i-\mathbb{k}}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}-n_s-1} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+s-1-j_{sa}^{ik}+1} \sum_{i=l_{sa}+n+1}^{D-j_{sa}} \sum_{n_i=n}^n \sum_{n_{is}=n+k-j_s+1}^{()} \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n, l \neq i \wedge l \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D - l_s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n, l = k > 0 \wedge$

$j_{sa} - j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$

$s > 2 \wedge s = s + k \wedge$

$k_z: z = 1 \Rightarrow$

$$\begin{aligned}
fzS_{j_s, j_i}^{DOST} = & \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l}^{(l_{ik}-l-j_{sa}^k+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik})}^{(n_{ik} + j_s + j_{sa}^{ik} - l - \mathbb{k})} \frac{(n_i + j_s - j_{sa}^s - l - j_{sa}^s)!}{(n_i + j_s - j_{sa}^s - l - j_s - j_{sa}^s)!} \frac{(l_s - l - j_s + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq j_i \wedge l_s \leq D - n + 1$

$D + l_s + s - n - l_i + 1 \leq l_s - l - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i - 1 \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s - l_{sa} + j_{sa}^s - j_{sa}^{ik} \wedge l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + s - n - 1 \wedge$

$D \geq n < n - l = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} - j_s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s - j_{sa}^s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l - l_s - s - 1)!}{(j_s + l_i - n - l_s - j_i - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{i=1}^{l-1} \sum_{j_s=n-D-j_{sa}+1}^{l-j_{sa}+2} \sum_{j_i=j_s+s-1}^n \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_i-j_s+1)} \\
 & \frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + 1 \wedge$$

$$\mathbb{k} : z = 1 =$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}-n_s-\mathbb{k}-1)!}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s-l+1}^{n-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l_k}$$

$$\frac{(n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} + 1)!}$$

$$\frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_k)!}$$

$$\frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

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$$\frac{(n_i + j_s - j_i - I - j_{sa}^s)!}{(n_i - n - I)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D > n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^i, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} = & \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s - l - 1)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i = n + k}^n \sum_{(n_{is} + k - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa} - j_{sa}^{ik}} \sum_{(n_{ik} + j_s + j_{sa}^{ik} - k)}$$

$$\frac{(n_i + j_s - j_s - l - j_{sa})!}{(n_i + j_s - j_s - l - j_{sa})! \cdot (n_i + j_s - j_s - j_{sa})!}$$

$$\frac{(l_s - l - 1)!}{(l_s - l - 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1) \vee$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz^{S_{j_s, j_i}} = \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=2)}^{l_{sa}+s-1} \sum_{j_{sa}=n+s-D-j_{sa}}^{j_{sa}+1} \sum_{n_i=0}^n \sum_{(n_{is}=n+k-j_s+1)}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i + j_s - j_i - l - j_{sa}^s)!}{(n_i - n - l)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(l_s - l - j_s - 1)! \cdot (l_s - l - j_s - 2)!}{(l_s - j_s - 1)! \cdot (l_s - j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq D + s - n) \vee$

$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_k \leq D - (j_{sa}^{ik} - n) \vee$

$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq D + s - n) \vee$

$(D \geq n < n \wedge l = l_i \wedge l_i \leq D + s - n \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{SD} S_{j_s}^{D+T} = \sum_{k=i}^l \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{l_i - i^{l+1}}$$

$$\sum_{n_i=n+k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-k+1)}$$

$$\frac{(n_i - n_s - k - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - k + 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$\sum_{k=i}^l \sum_{(j_s=1)}^{()} \sum_{j_i=s}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}$$

$$\frac{(n_i + j_s - j_i - k - j_{sa}^s)!}{(n_i - n - k)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

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$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(l_{ik}+s-l-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(n-D)}^{(j_i-s+1)} \sum_{(n)}^{(j_i-s+1)} \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{(n_{is}+j_s-j_i)} \frac{(n_i - n_{is} - 1)!}{(i - l - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_i=l_{ik}+s-l-j_{sa}^{ik}+2)}^{l_i-l+1} \sum_{(n)}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{(n_{is}+j_s-j_i)} \sum_{(n_s=n-j_i+1)}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=1}^{(j_s - j_i - 1)} \sum_{j_i = l_i + n - D}^{j_{sa}^{ik} + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{\mathbb{k} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_i-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{j_i = l_i + n - D - s + 1}^{j_i = l_i + n - D - s + 1} \sum_{n_i = n - l_i - j_{sa}^{ik} - j_s + 1}^{n_i = n - l_i - j_{sa}^{ik} - j_s + 1} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n_i + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_i > D - l_i + 1 \wedge D + l_s + s - n - l_i + 1 \leq l_i \wedge D > n + 1 \wedge 2 \leq j_s \leq j_i - s \wedge j_s + s \leq j_i \leq n \wedge l_i - j_{sa}^{ik} - 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge D \geq n < n \wedge l_i = \mathbb{k} = 0 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge s: \{j_{sa}^s, j_{sa}^i\} \wedge s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_z^{S_{j_s, j_i}^{DOST}} &= \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n_i-j_s+1} \\
 &\quad \sum_{n_i=n}^{n_i+j_s-j_i} \sum_{(n_{is}=n-j_s+1)}^{n_s-n-j_i} \\
 &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\quad \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 &\quad \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\quad \frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\quad \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 &\quad \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 &\quad \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{n_i-j_s+1} \sum_{j_i=j_s+s-1}^{n_i-j_s+1} \\
 &\quad \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 &\quad \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \\
 &\quad \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
 &\quad \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\quad \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s-1)} \sum_{(j_s=l_s+n-D)}^{j_i+n+s-D-j_{sa}^{lk}} \sum_{n_i=n}^{n} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{n_s=n-j_i+1} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{ik}+s-l-j_{sa}^{lk}+1} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{n_s=n-j_i+1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=0}^{n_i - j_i - s + 1} \sum_{l_i = l_{ik} + n + s - D - j_{sa}^{ik}}^{n_i - j_i - s + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{\mathbb{k} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{lk} - j_i - j_{sa}^s - \mathbb{k})}^{(n_i - j_s + 1)} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l_s > D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

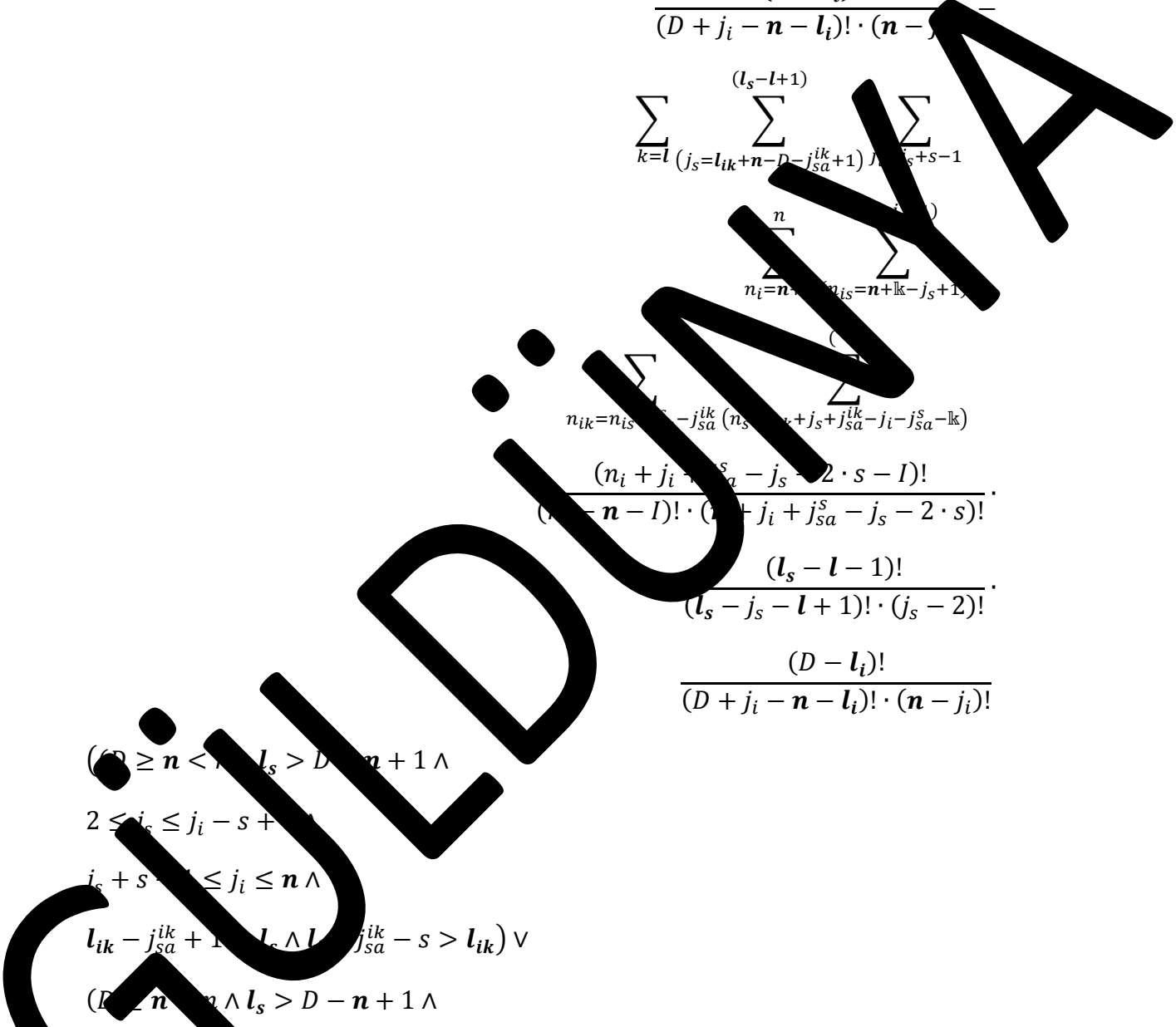
$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{(j_s=l_s+n-D)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_s}^{n} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_s-n_{is}-1)!} \frac{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}{(n_{is}-n_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{n} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \frac{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}{(n_{is}-n_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)} \sum_{(j_s = s - 1)} \sum_{(n_i = n - k)} \sum_{(n_{is} = n + k - j_s + 1)} \sum_{(n_{ik} = n_{is} - j_{sa}^{ik} (n_{sa}^{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k))} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - 1)!}{(n - n - 1)! \cdot (n_i + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee (D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee (D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1$$



$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_{j_s, j_i}^{S_{DOST}} = & \sum_{k=l}^{(j_s+s+1)} \sum_{j_i=l_i+s-l}^{(j_s+n-D)} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(j_s - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(j_s - n_s - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}
 \end{aligned}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l_i}^{l_s+s-1} \sum_{n_i=n+l_k}^{n_{is}=n+l_k-j_s+1} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\ & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \end{aligned}$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{i_i}^{POST} = \sum_{k=l}^{(l_s - l + 1)} \sum_{j_i=l_i+n-D}^{(l_i - l + 1)} \sum_{j_s=l_i+n-D}^{(l_i - l + 1)}$$

$$\sum_{n_i=(n_i - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s=n - j_i + 1}^{n_{is} + j_s - j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{j_i=l_i+n-D-s+1}^{(l_i - l + 1)} \sum_{j_s=j_s+s-1}^{(l_i - l + 1)}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l - l_s - s - 1)!}{(j_s + l_i - l_s - l + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{(l_s-l+1)} \sum_{n_{is}=l_i+n-D-s+1} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{lk}}^{(\cdot)} \\
& \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n} \sum_{(n_i=n-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{j_i-j_s+s-1} \sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_{is}=n+k-j_s+1)} \sum_{(n_{ik}=n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(n_{ik}=n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})} \frac{(n_i + j_i - j_{sa}^s - j_s - 2 \cdot s - 1)!}{(n - 1)! \cdot (n_i + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - 1 > D - 1 + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_s = l_s \wedge l_s - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D > n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i \wedge$$

$$s \in \{j_s, j_i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{j_i-j_s+1} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1}$$

$$\begin{aligned}
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{sa}-l-s+2)} \sum_{j_{sa}=n_{sa}+1}^{l_{sa}+n_{sa}-j_{sa}+1} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

GÜLDENWA

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{(l_{sa+s-l-j_{sa}+1})} \sum_{j_i=l_i+n-D}^{(n)} \sum_{n_i=n+l_k}^{(n_i-j_s+1)} \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k)}^{(n_i-j_s+1)}$$

$$\frac{(n_i+j_i+j_{sa}^s-j_s-l+1)!}{(n_i-n-l)! \cdot (n_i+j_{sa}^s-j_s-l+1)!} \cdot \frac{(j_s-l-1)!}{(j_i-l+1)! \cdot (j_s-2)!} \cdot \frac{(D+j_s-n-l_i)! \cdot (n-j_i)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge I = 0 \wedge$$

$$j_s^l \leq j_{sa}^l - 1$$

$$s: \{j_s^l, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{(l_i-l+1)} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{n_{is}=n-j_s+1}^{(n_i+j_s-j_i)} \sum_{n_s=n-j_i+1}^{(n_i-j_s+1)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n} \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{n_{is}=n+k-j_s+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - l)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n}$$

$$\sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)}$$

GÜLDÜMBA

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)$$

$$\frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-l)!}{(n_i-n-l)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i \wedge l_i + j_{sa} - l_{sa} \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s =$$

$$fz^{DOST}_{j_s, j_i} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n_i+j_s-j_i}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-}$$

$$\sum_{n_i=n}^n \sum_{n_i=n+j_s+1}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+} \sum_{n_{ik}=n_{ik}+j_s}^{(j_s+1)} \frac{(j_s+1)!}{(n_i - n_{ik})! \cdot (n_{ik} + j_{sa} - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1$$

$$2 \leq j_s \leq j_i - s + 1$$

$$j_s - s - 1 \leq j_i < n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{ik} + j_{sa}^{ik} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

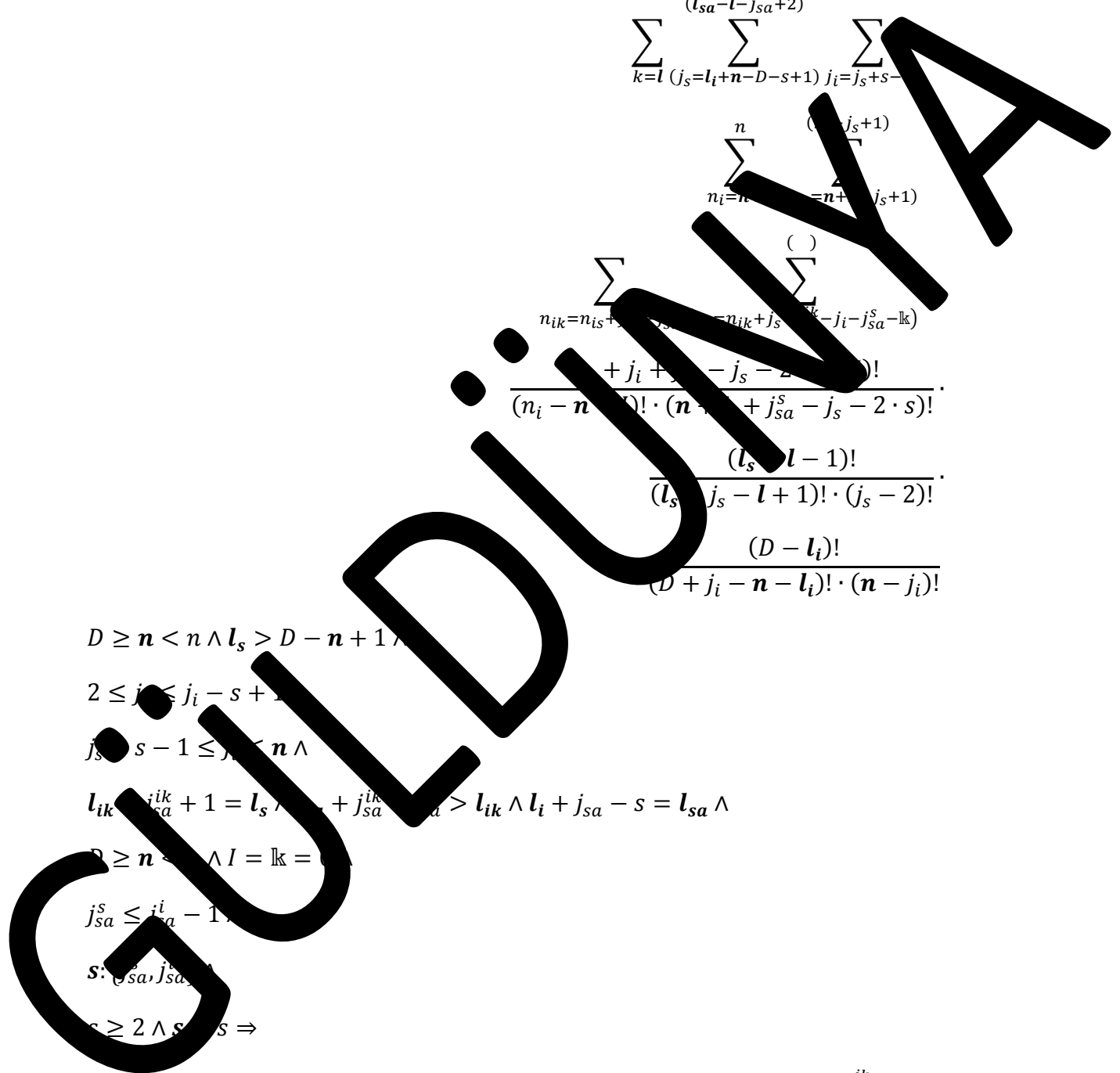
$$D \geq n < n \wedge l = \mathbb{k} =$$

$$j_{sa}^s \leq j_{sa}^i - 1$$

$$s: (j_{sa}^i, j_{sa}^s)$$

$$s \geq 2 \wedge s < s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$



$$\begin{aligned}
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^l \sum_{j_{sa}^{ik}+1}^{(l_{ik}-l_{sa}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_{sa}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

GÜLDÜZÜMÜYA

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik})}^{(n_i-j_s+1)}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 1)!}{(n_i - n - l)! \cdot (n_i + j_{sa}^s - j_s - 1)! \cdot s!}$$

$$\frac{(l_s - l - 1)!}{(j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - j_s + 1)!}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} > l_{ik} \wedge l_{sa} - j_{sa} - s = l_{sa} \wedge$

$D \geq n < n \wedge l = 0 \wedge$

$j_s \leq j_{sa}^i - 1$

$s: \{j_{sa}^i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n-(n_i-j_s+1) - n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n-(n_i-j_s+1) - n_{is}+j_s-j_i}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

GÜLDÜZÜMÜ

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}} \frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-l)!}{(n_i-n-l)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-l)!} \cdot \frac{(D-l)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_i \wedge l_i + j_{sa} - l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s =$$

$$f_{z_{ij}}^{ST} = \sum_{k=l} \sum_{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = n - j_i}^n \sum_{n_{is} = n + k - j_s + 1}^n \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - 1)!}{(n - n - 1)! \cdot (n_i + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{(j_i=l_{sa}+n+s-D)}^{(l_s+s)} \frac{(n - (n_i - j_s + 1) - (n_{is} - n - j_s) - (j_i - j_s - s + 1))!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - 1)!}{(j_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{(l_s+s-l-j_{sa}+1)} \sum_{(j_i=l_s+s-l+1)}^{(n_i-j_s+1)} \sum_{(n_i=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{(n_s=n-j_i+1)}^{(n_i - n_{is} - 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l_i}^{(n)} \sum_{n_i=j_i-s}^{l_s+s-l} \sum_{l_{sa}=n_{is}-D-j_{sa}}^{(n)} \sum_{n_i=n+l}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s+1)} \sum_{i_k=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s - l - 1)} \sum_{j_s = l_{sa} + n - D - j_{sa} + 1}^{l_{sa} + n - D - j_{sa} + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}^{l_{sa} + n + s - D - j_{sa} + 1} \frac{\binom{n_i - 1}{n_i - n_{is} - 1} \binom{n_{is} + j_s - j_i}{n_s = n - j_i + 1}}{\binom{n_i - n_{is} - 1}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s - l - 1)} \sum_{j_s = l_{sa} + n - D - j_{sa} + 1}^{l_{sa} + n - D - j_{sa} + 1} \sum_{j_i = j_s + s - 1}^{l_{sa} + n - D - j_{sa} + 1}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l - l_s - s - 1)!}{(j_s + l_i - l_s - l + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{(l_s-l-1)} \sum_{(j_s+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{lk})}^{()} \\
& \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{j_s+s-1} \sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_{is}=n+k-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}^s - j_{sa}^{ik} (n_{is}^s + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - 1)!} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - 1)!}{(n - l)! \cdot (n_i + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l \neq l \wedge l \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} \leq l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq n - n \wedge$$

$$D \geq n < n - l = k = 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1) l_{ik+s-l-j_s^k+1}} \sum_{(j_s=2)} \sum_{j_i=s+1} \\
&\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_{ik-l-j_s^k+2})} \sum_{(j_s=2)} \sum_{j_i=l_{ik+s-l-j_s^k+2}}^{l_i-l+1} \\
&\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i+l_k)}^{()}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_i \leq n - 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_s = l_s \wedge l_{ik} - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = 0 \wedge$$

$$j_{sa}^s \leq j_i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\}$$

$$s \geq j_{sa}^i = s \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=2)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D - n - l_i - 1)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_s)} \sum_{j_i=2}^{(j_s - 2)} \sum_{j_i=j_s+s-1}^n \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{k=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$l_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1) l_{ik+s-l-j_{sa}^{ik}}} \sum_{(j_s=2)} \sum_{j_i=n-D}^{n-j_s+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik-l-j_{sa}^{ik}+2})} \sum_{(j_s=2)} \sum_{j_i=l_{ik+s-l-j_{sa}^{ik}+2}}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

GÜLDÜZYA

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{\binom{l_i + s - j_i^{ik} + 1}{j_s = j_s + 1}} \sum_{j_i = l_i + n - \dots}^{\binom{n}{n_i = n + k} \binom{n_i - j_s + 1}{n_i - j_s + 1}} \sum_{\substack{k = n_i + j_{sa}^s - j_{sa}^{ik} \\ s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k}}^{\binom{\dots}{\dots}} \frac{(n + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i, l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_s + 1 \wedge$$

$$j_s + 1 \leq j_i - 1 \wedge$$

$$l_{ik} - j_{sa}^{ik} + \dots = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_s < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n_i-n_{i_s}-1} \sum_{n_i=n}^n \sum_{(n_{i_s}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{i_s}+j_s-j_i} \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{s\bar{a}}^{lk}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_i-n_{i_s}-1} \sum_{n_i=n}^n \sum_{(n_{i_s}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_{i+1}}^{n_{i_s}+j_s-j_i} \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

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$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i = n + 1}^n \sum_{(j_s + 1)} \sum_{(j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - n_{is} + j_s + 1 - j_i - j_{sa}^{ik} - k} \sum_{(j_s + 1)} \frac{(n_i + j_i + j_s - j_s - 2)!}{(n_i - n + 1)! \cdot (n + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - i + 1 \wedge$$

$$D + s - n - l_i - 1 \leq l \leq i - 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} - 1 = l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i - l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$s < j_i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_{j_s, j_i}^{SDOST} &= \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n} \\
 &\quad \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i}^{(n_i-n_{is}-1)!} \\
 &\quad \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}-n_s-j_i)!} \\
 &\quad \frac{(n_s-1)!}{(n_s+j_i-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l+1)!}{(l_s-j_s-l+1)! \cdot (l_s-2)!} \\
 &\quad \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_s-l_s)! \cdot (l_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+l_i-n-l_i)! \cdot (n-j_i)!} \\
 &\quad \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^{n} \\
 &\quad \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-n_{is}-1)!} \\
 &\quad \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-n_{is}-1)!} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(n_i-n_{is}-1)!} \\
 &\quad \frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-l)!}{(n_i-n-l)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \\
 &\quad \frac{(D-l_i)!}{(D+l_i-n-l_i)! \cdot (n-j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz^{S_{j_s, j_i}^{DOST}} \sum_{j_s=1}^{j_i-s+1} \sum_{l_s=1}^{l_s+s-l} \sum_{n_i=n-j_s+1}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-l+1}^{n_i-j_s+1} \sum_{n_i=n-j_s+1}^{n_i+j_s-j_i} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{n_i} \sum_{s=0}^{n_i - k} \sum_{l=0}^{n_i - k - s} \sum_{a=0}^{n_i - k - s - l} \binom{n_i - k - s - l - a}{k, s, l, a} \sum_{n_i = n + lk}^n \sum_{(n_{is} = n + lk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{k=n_{is} + j_{sa}^s - j_{sa}^{ik}} \binom{n_i - j_s + 1}{k, s, l, a} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{lk} - j_i - j_{sa}^s - lk)} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$

$j_{sa}^s \leq j_{sa}^i - 1 \wedge$

$s: \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n-D-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \dots$$

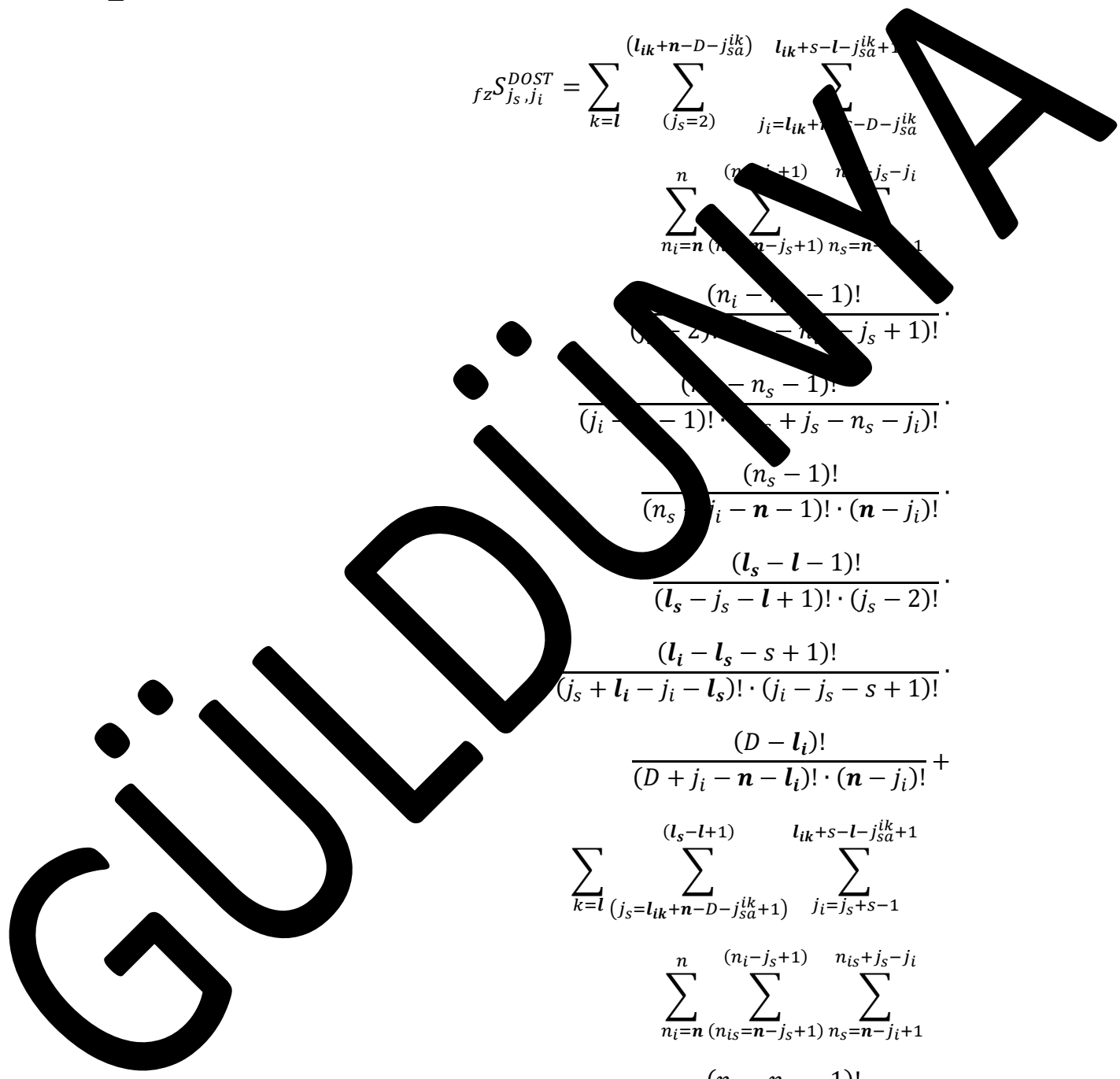
$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i+1)} \sum_{n_s=n-j_i+1}^{n_i-j_s-j_i} \dots$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \dots$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \dots$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$



$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{l_s - l} \sum_{j_s = l_{ik} + n_{is} - j_{sa}^{ik} + 1}^{j_s} \sum_{j_i = j_s + 1}^{n - (n_i - j_s + 1)} \sum_{n_i = n + k}^n \sum_{n_{is} = n_{is} - j_s + 1}^{n_{is}} \sum_{j_{sa} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{j_{sa}^s} \sum_{j_{sa} = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k}^{j_{sa}^s} \frac{(n - j_i - j_{sa} - j_s - 2 \cdot s - l)!}{(n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i, l \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_i - s \wedge$$

$$j_s + s \leq j_i - n \wedge$$

$$i - 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

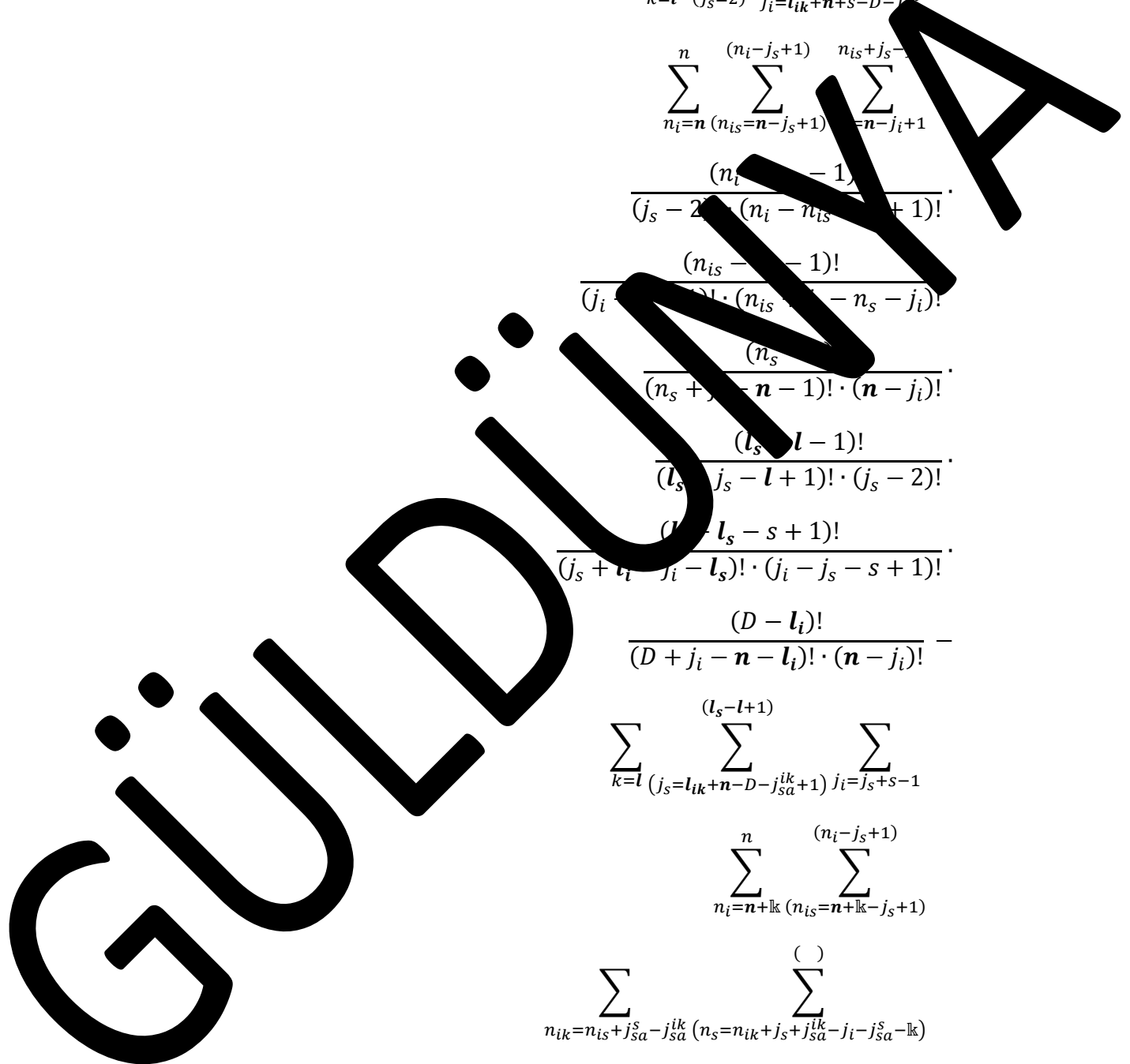
$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$s: \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{ik}}^{n} \sum_{(n_i=n-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_i=n-j_i+1)}^{n_i+j_s-1} \frac{(n_i-1)!}{(j_s-2)! \cdot (n_i-n_{is}+1)!} \cdot \frac{(n_{is}-1)!}{(j_i-1)! \cdot (n_{is}-n_s-j_i)!} \cdot \frac{(n_s)}{(n_s+j_s-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_s-l-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \cdot \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{j_i=j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{lk})} \frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-l)!}{(n_i-n-l)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$



$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_{j_s, j_i}^{SDOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}^{l_s+s-l} \\
 &\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \\
 &\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}
 \end{aligned}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{i=s+1}^{l_s+s-l} \sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{()} \sum_{(n_{ik}=n_{is}-j_{sa}^{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{ik})}^{()} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - 1)!}{(n - 1)! \cdot (n_i + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < l \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq i \leq j_i - s + 1 \wedge$$

$$i + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < l \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-l_k)}^{()}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l + 1)! \cdot (j_s - 2)!}{(l_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_s - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$(D + s - n < l_i \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i) \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_s - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$(D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOS} \sum_{k=l}^{s+1} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{n_i-n} \sum_{(n_i=n-j_s+1)}^{n_i+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{-lk})}^{()} \\
 & \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l \neq i \wedge l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k =$$

$$j_{sa}^s - j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\}$$

$$s \leq j_{sa}^s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l_i}^{(l_s-l+1)} \sum_{j_i=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
& \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^{(n-j_s+1)}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{()}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - s - 1)!}{(n_i - n - l)! \cdot (n_i + j_{sa}^s - j_s - s)!}$$

$$\frac{(j_s - l - 1)!}{(j_i - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D + j_s - n - l_i)! \cdot (n - j_i)!}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1) \vee$

$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}$

$(D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$

$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1))$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s=2)}^{l_i - l + 1} \sum_{j_i=l_i+n-D}^{l_i - l + 1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i = n + k}^n \sum_{(n_{is} + k - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_{ik} + j_s + j_{sa}^{ik} - k)}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l + 1)! \cdot (j_s - 2)!}{(l_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^s + j_{sa}^{ik} = l_s \wedge l_{ik} + j_{sa}^{ik} - j_{sa}^s = l_i \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 1 \wedge$$

$$j_{sa}^s \leq j_{sa}^i \wedge$$

$$s: \{i, i\} \wedge$$

$$s \geq 2 \wedge s = 2 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i - s + 1)} \sum_{(j_s = 2)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = l_i + n - D}$$

$$\sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{(l_{sa} - j_{sa} + 2)} \sum_{(j_s=2)}^{l_{sa} + s - l - j_{sa} + 2}$$

$$\sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}$$

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$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}$$

$$\frac{(l_s - l - 1)! \cdot (l_s - 2)!}{(l_s - j_s - 1)! \cdot (l_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_i = l_{ik} \wedge l_{sa} + j_{sa} - s > 0 \wedge$

$D + s - n < l_i \leq D + l_s - n - 1 \wedge$

$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$

$j_{sa}^s \leq j_{sa}^i - 1 \wedge$

$s \in \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i + n - D - s)} \sum_{(j_s=2)}^{l_i - l + 1} \sum_{j_i = l_i + n - D}$$

$$\sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l+1} \sum_{j_i=j_s+s-1}^{n-j_s+1} \frac{(n_i - j_s - 1)!}{(n_i - n - j_s + 1)!} \cdot \frac{n_{is} + j_s - j_i}{n_{is} - j_s + 1} \cdot \frac{(n_s - n_{is} - 1)!}{(j_s - 2)! \cdot (n_s - n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - 1)!}{(j_s - 2)! \cdot (n_s - n_{is} - j_s + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l+1} \sum_{j_i=j_s+s-1}^{n-j_s+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-l)!}{(n_i-n-l)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-l)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i \wedge l_i + j_{sa} - j_s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{j_s+s-1} \sum_{n_i=n}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}+1} \sum_{n_{ik}=n_{is}-j_{sa}-j_{sa}^{ik}}^{n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - 1)!}{(n - 1)! \cdot (n_i + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n + l \neq l \wedge l \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_{is} - j_{sa}^{is} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D - l_i < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n + l = k = 0 \wedge$$

$$j_{sa}^{is} = j_{sa}^{is} - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} = & \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{j_i=l_{sa+n+s-D-j_{sa}}}^{n_{is+j_s-j_i}} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is+j_s-j_i}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - j_s - l + 1)!}{(j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa+s-l-j_{sa}+1}} \sum_{j_i=l_{ik+s-l-j_{sa}^{ik}+2}}^{n_{is+j_s-j_i}} \\
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is+j_s-j_i}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik+s-l-j_{sa}^{lk}+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{ik}+j_s+j_{sa}^{lk}-j_i-k)} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - 1)!}{(n_i - n - j_s - j_i + j_{sa}^s - j_s - 2 \cdot s)!} \frac{(l_s - l_i)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(l_i - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq n - 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - j_{sa}^k + j_{sa}^i = l_s \wedge l_s + j_{sa}^{ik} - j_{sa} > l_i \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$D \geq l_i < n \wedge l = k = l_s \wedge$$

$$j_{sa}^s \leq j_{sa}^i \wedge$$

$$s: \{1, 2, \dots\} \wedge$$

$$s \geq 2 \wedge s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(n_i-j_s+1)} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(n - l_i)!}{(n - l_i - 1)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - j_{sa}^{ik} + 2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{j_{sa}+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i}$$

$$\sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1} \sum_{j_i=j_s+s-1}$$

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$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-1)!}{(n_i-n-1)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s-1)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-1)! \cdot (l-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-l-1-l_i)! \cdot (n-j_i-1)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + l_i - j_{sa} > l_{ik} - l_i + j_{sa} \wedge l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = 0 \wedge$$

$$j_s^s \leq j_{sa}^s - 1 \wedge$$

$$s: \{j_s^s, j_{sa}^s\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_s - 2)} \sum_{n_{sa} = n_{sa} + k} \sum_{j_s = s - 1}^{j_s + s - 1} \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} \mid n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{()}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$((D > n < n) \wedge (l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$l_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s}^{s, T} = \sum_{(j_s=2)}^{(s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

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$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1)l_{sa}+s-l-j_{sa}+1} \sum_{(j_s=2)} \sum_{j_i=l_s+s-l+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{-lk})} \\
 & \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s \cdot \{j_{sa}^s, j_{sa}^i\}$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i - n_{is} - 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\begin{aligned}
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_s-l-1)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-j_{sa}+1} \sum_{j_i=j_s+s-1}^{j_{sa}+1} \\
 & \sum_{n_i=n-j_s+k}^{(n_i-j_s+k)} \sum_{n_{is}=n-j_s+k-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_s - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_s - n_s - 1)!}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_s-l-1)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-j_{sa}+1} \sum_{j_i=j_s+s-1}^{j_{sa}+1} \\
 & \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)}
 \end{aligned}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-l_k)} \frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-l)!}{(n_i-n-l)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-l)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_s}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_i=n+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{n_i+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)! \cdot (n_s - j_i)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_s - 1)!}{(n_i - j_s - 1)! \cdot (n_{is} - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_i + j_i - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=1}^{l_i} \sum_{j_s=1}^{l_i - i + 1} \sum_{j_i=1}^{l_i - i + 1} \frac{\binom{l_i - i + 1}{j_i} \binom{l_i - i + 1}{j_s}}{\binom{l_i - i + 1}{j_i + j_s}} \frac{(j_i - 2)! \cdot (l_i - n_s - j_i + 1)!}{(n_s + j_i - n - 1)! \cdot (l_i - j_i)!} \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \sum_{k=1}^{l_i} \sum_{j_s=1}^{l_i - i + 1} \sum_{j_i=1}^{l_i - i + 1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\binom{l_i}{n_{ik}=n_i-j_s-j_{sa}^{ik}}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_i + s - j_i^{ik} + 1)} \sum_{j_s=j_s^{sa}+1}^{(j_s - j_i - l_s + 1)} \sum_{n_i=n+l_k}^n \sum_{(n_i - j_s + 1)}^{(n_i - j_s + 1)} \sum_{s=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{(s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)} \frac{(n + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_s + 1 \leq j_i -$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$\geq n - \wedge I = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$l_k: z = 1 \Rightarrow$

$$\begin{aligned}
 f_{z} S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{ik}+n-D-j_{s\bar{a}}^{ik}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
 &\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+k}^{n_{is}+j_s-j_i-k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
 &\frac{(l_i - l_s - s + 1)!}{(l_i + l_j - j_s - s)! \cdot (j_i - j_s - s + 1)!} \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_{ik}-l-j_{s\bar{a}}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 &\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+k}^{n_{is}+j_s-j_i-k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}
 \end{aligned}$$

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$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i = n + 1}^n \sum_{(j_s + 1)} \sum_{(j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - n_{is} + j_s + 1 - j_i - j_{sa}^s - lk} \sum_{(j_s + 1)} \frac{(n_i + j_i + j_s - j_s - 2 \cdot s)!}{(n_i - n + 1)! \cdot (n + 1 + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_i + s - n - l_i - 1 \leq l \leq D - n - 1$$

$$2 \leq j_s \leq j_i - s$$

$$j_s + 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} - 1 = l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s = \{j_{sa}^s, lk\} \wedge$$

$$s = 2 \wedge s = s + lk \wedge$$

$$lk_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z^{S_{j_s, j_i}^{DOST}} = & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}-l+1} \sum_{j_i=l_i+n-D}^{n_i+j_s-j_i-k} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_i+j_s-j_i-k} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
 & \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{l_s+n}^{l_s+s-l} \sum_{l_s+l+1}^{l_s+l} \sum_{n_i=n+l}^{n} \sum_{n_{is}=n+l-k-j_s+1}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{n_s+n-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-l+1}^{n} \sum_{n_i=n+l}^{(n_i-j_s+1)} \sum_{(n_{is}=n+l-k-j_s+1)}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{n_s+n-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{n_i} \sum_{s=0}^{n_i - k} \sum_{l=0}^{n_i - k - s} \sum_{\substack{ik = n_{is} + j_{sa}^s - j_{sa}^{ik} \\ n_s = n_{ik} + j_s + j_{sa}^{lk} - j_i - j_{sa}^{-lk}}} \sum_{n_i = n + lk}^n \sum_{(n_{is} = n + lk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{ik = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{lk} - j_i - j_{sa}^{-lk})}^{(D - l_i)}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = lk \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n-D-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{l_s-1} \sum_{j_s=l_{ik}+n_{is}-j_{sa}^{ik}+1}^{j_i=j_s+1} \dots$$

$$\sum_{n_i=n+l_k}^n \sum_{n_{is}=j_s+1}^{(n_i-j_s+1)}$$

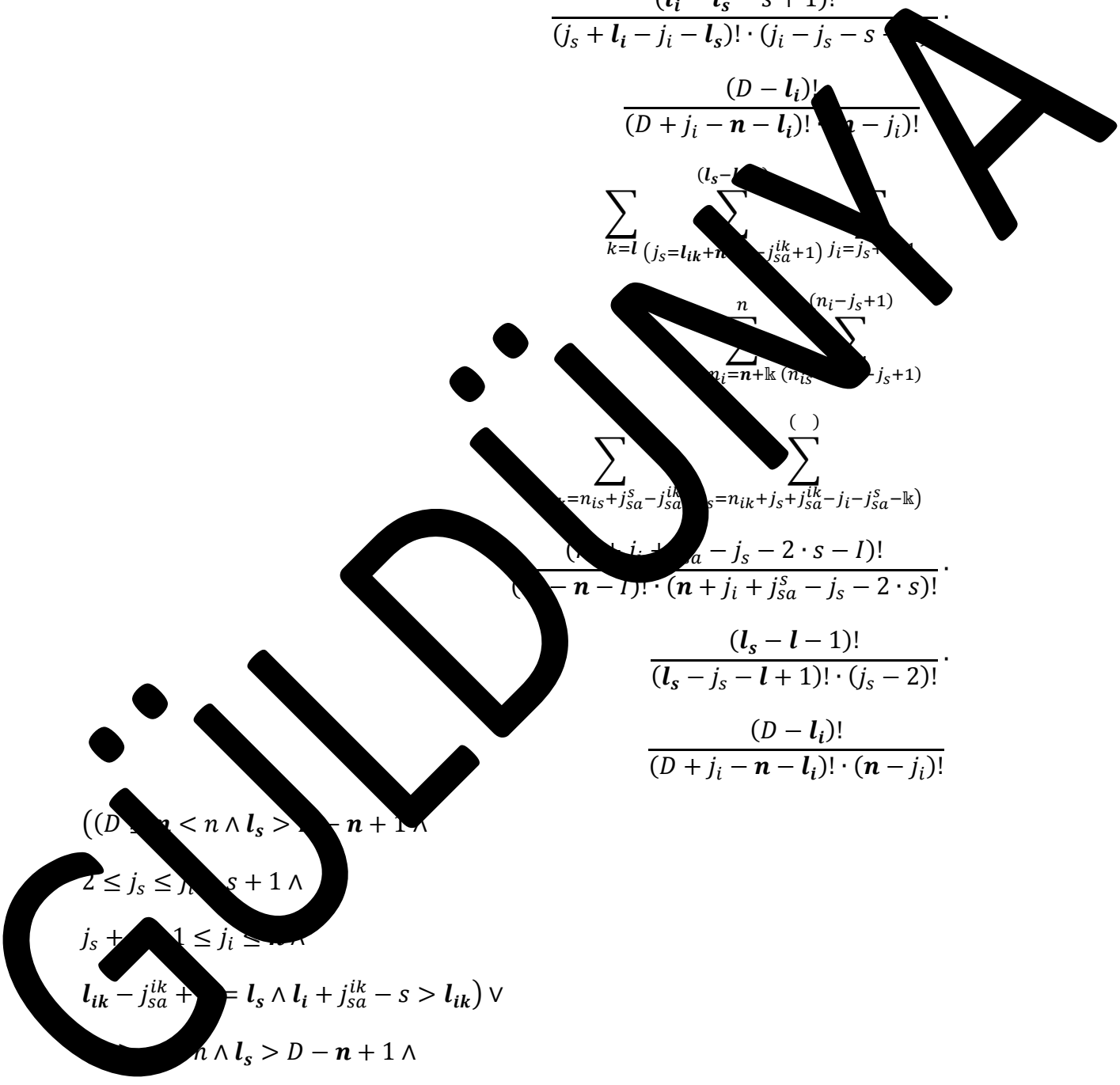
$$\sum_{n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k} \binom{(\cdot)}{\cdot}$$

$$\frac{(n_s + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

- $((D - n < n \wedge l_s > n - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$
- $(D - n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$



$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{i_i}^{DOST} = \sum_{k=l}^{(s+1)} \sum_{j_s=l_s+n-D}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{l_i+s-l}$$

$$\sum_{n_i=n+k}^n \sum_{n_s=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_s+n-D}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_s - l - s + 1)!}{(j_s + l_i - l_s - l + 1)! \cdot (i_s - l_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{j_s=j_i-s+1}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^{lk})}^{()} \\
 & \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_i+n-D-s)} \sum_{j_s=l_s+n-D}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\ &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\ &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - 1)! + 1!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)!}$$

$$\frac{(n_i - j_i - n - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(n - l - 1)!}{(n - j_s - 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - 1)! \cdot (l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \end{aligned}$$

$$\begin{aligned} & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \end{aligned}$$

$$\begin{aligned} & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \end{aligned}$$

$$\begin{aligned} & D \geq n < n \wedge l_s \geq 0 \wedge \\ & j_{sa}^s = j_i - 1 \wedge \\ & s: \{j_{sa}^s, k, j_s^s\} \wedge \\ & s = s + k \wedge \\ & k_z: z = 1 = \end{aligned}$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D + l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{j_s=l_i+1}^n \sum_{j_i=j_s+s-1}^{n-s+1} \sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s+1)} \sum_{k=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+s-l-j_{sa}}^{l_{sa}+s-l-j_{sa}} \sum_{n_i=n+k}^n \sum_{(n_i-j_s+1)}^{(n_i-j+1)} \sum_{n_s=n-j_i+1}^{n_i-j_i-k} \frac{(n_i - n_{is} - 1)!}{(n_i - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(j_i - i - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{l_i-l+1} \sum_{n_i=n+k}^n \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(j_s - l_s - l + 1)} \sum_{j_i=l_i+n-k}^{(l_{sa+s} - j_{sa+1})} \sum_{n_i=n+k}^n \sum_{j_s=j_s+1}^{(n_i - j_s + 1)} \sum_{j_s=n_{is}+j_{sa}^i - j_{sa}^{lk}}^{(n_{ik}+j_s+j_{sa}^{lk} - j_i - j_{sa}^{lk})} \frac{(n + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}{(n - 1)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_s \leq j_s - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i$$

$$l_{ik} - j_{sa}^{lk} + j_{sa}^i = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} = & \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_i+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^s-l-k)}^{(n_{ik}+j_s+j_{sa}^s-l-k)}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l_i + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - l + 1)! \cdot (j_s - 2)!}{(l_s - l - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1$$

$$D + l_s + s - n - l_i + 1 \leq D - n + 1$$

$$2 \leq j_s \leq j_i - s$$

$$j_s + s \leq j_i \wedge n$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_{sa} + j_s - j_{sa}^{ik} \wedge l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = l_k \geq 1 \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$s: \{j_{sa}^i, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = 1 + l_k \wedge$$

$$f_z^{SDOST}_{j_s, j_i} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\begin{aligned}
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l - l_s - s + 1)!}{(j_s + l_i - l_s - l + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=l}^{l_{sa}-l-j_{sa}+2} \sum_{i=l_i+n-D-s+1} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(\cdot)} \\
& \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

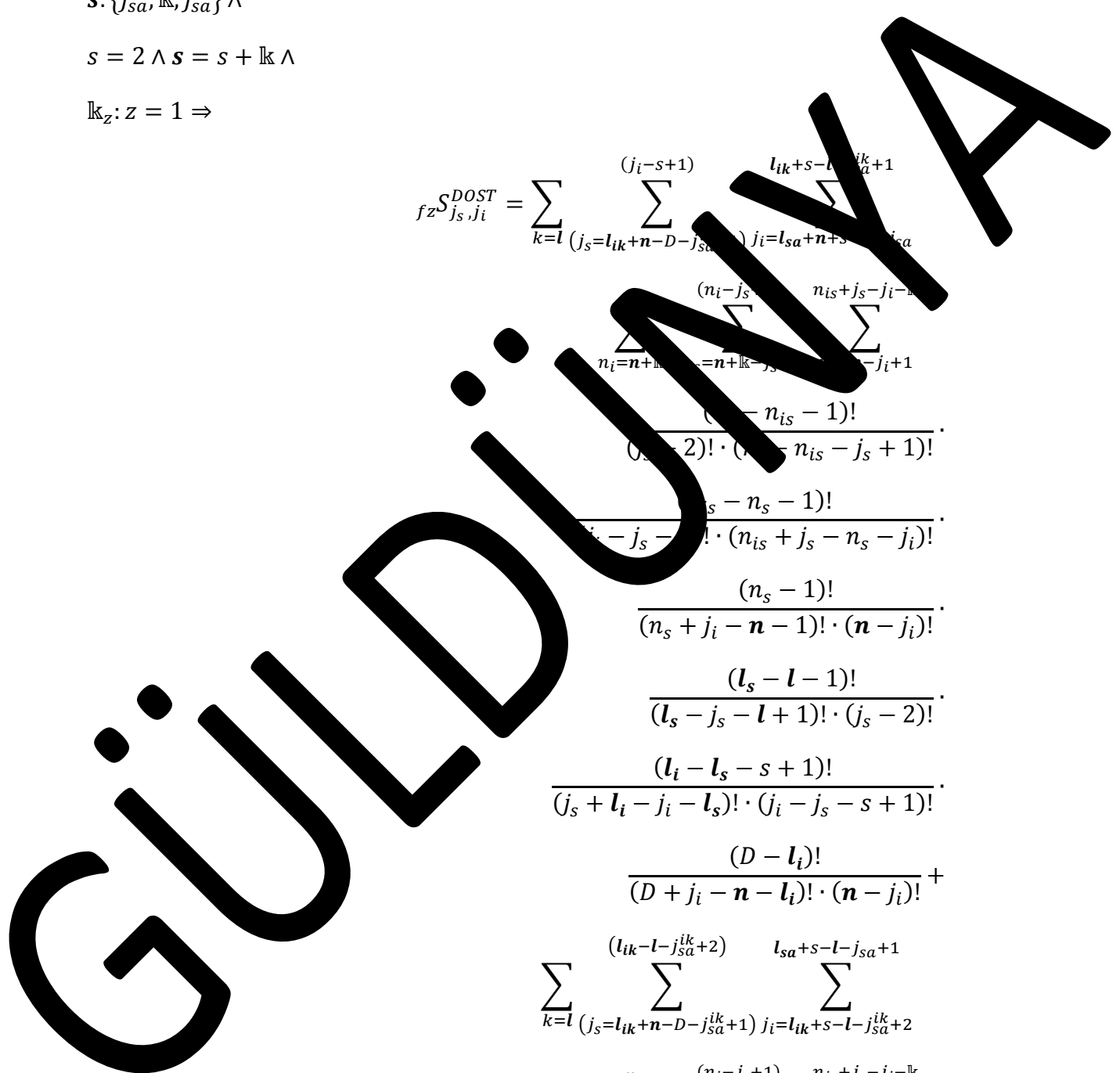
$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_{zS}^{DOST}_{j_s, j_i} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(j_i=l_{sa}+n+s-j_{sa})}^{(l_{ik}+s-l-j_{sa}^{ik}+1)} \sum_{(n_i=n+l-k-j_s)}^{(n_i-j_s)} \sum_{(n_s=n-j_i+1)}^{(n_{is}+j_s-j_i-l)} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(j_s-n_s-1)!}{(j_i-j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{(j_i=l_{ik}+s-l-j_{sa}^{ik}+2)}^{(n_i-j_s+1)} \sum_{(n_i=n+l-k-j_s)}^{(n_{is}+j_s-j_i-l)} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}$$



$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{k=l}^{()} \sum_{j_i-s+1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_s-D-j_{sa}}^{()} \sum_{n_i=n+1}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{()}^{()} \sum_{i_k=n_{is}+j_{sa}-j_{sa}^{ik}}^{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{lk}) \cdot \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \geq D - l + 1 \wedge$

$2 \cdot j_s \leq j_s - s + 1 \wedge$

$j_s + s - 1 \wedge j_i \leq n \wedge$

$l_{ik} - j_{sa}^{lk} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D \geq n < n \wedge l = k \geq 0 \wedge$

$j_{sa}^s = j_{sa}^l - 1 \wedge$

$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l - 1)!}{(j_s + 1 - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

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$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{lk} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i = n + 1}^n \sum_{(j_s + 1)} \sum_{(j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa} - n_{is} + j_s + 1 - j_i - j_{sa}^s - lk} \sum_{(j_s + 1)} \frac{(j_s + j_i + j_s - j_s - 2 \cdot s)!}{(n_i - n - 1)! \cdot (n + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_i + s - n - l_i - 1 \leq l \leq D - n - 1$$

$$2 \leq j_s \leq j_i - 1$$

$$j_s + 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{lk} - 1 = l_s \wedge l_{sa} \wedge j_{sa}^{lk} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s = \{ j_{sa}^s, lk \} \wedge$$

$$s = 2 \wedge s = s + lk \wedge$$

$$lk_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_{zS}^{DOST}_{j_s, j_i} = & \sum_{k=l}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-lk} \\
 & \sum_{n_i=n+lk}^n \sum_{(n_{is}=n+lk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-lk} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - l - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(l_{ik}-l-j_{sa}^{ik}+2)} \\
 & \sum_{n_i=n+lk}^n \sum_{(n_{is}=n+lk-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-lk)}^{(n_i-j_s+1)} \\
 & \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s-l+1}^{j_i-l+k} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{n_s-n-j_i+l_k} \frac{(n_{is}-1)!}{(j_s-l_k)! \cdot (n_i-l_k-s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-l_k-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n-l_k-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l_s \geq 0 \wedge$$

$$j_{sa}^s = j_s - 1 \wedge$$

$$s: \{j_{sa}^s, l_k, j_{sa}^s\} \wedge$$

$$s = j_s - 1 = s + l_k \wedge$$

$$l_{k_z}: z = 1 =$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{\Delta} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{\Delta-1} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

$$\sum_{n+l_{sa}+n_{is}=n+l_k-j_s+1}^n \sum_{n_{is}+j_s-j_i-l_k}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{\Delta} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{()}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l - l_i)! \cdot (n - j_i - l_i)!}$$

$$\left((D \geq n < n \wedge l_s > D - n + 1 \wedge \right.$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$\left. l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \right) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{SDOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_s}^{+j_s-j_i-k}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n_{is}-k+1)}^{(n_i-j_s+1)} \sum_{n_s=n_{is}-j_i+1}^{+j_s-j_i-k}$$

$$\frac{(j_s-2)! \cdot (n_{is}-j_s+1)!}{(n_{is}-j_i)! \cdot (n_{is}-j_s-j_i)!}$$

$$\frac{(n_s-1)!}{(n_{is}+j_i-1)! \cdot (n-j_i)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!}$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(n_i-j_s+1)}$$

$$\frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-l)!}{(n_i-n-l)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{l=1}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

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$$\begin{aligned}
 & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{n_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=s+1}^{n_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
 & \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, l_i}^{DO} = \sum_{k=l}^{(l_{ik} - j_{sa}^{ik} + 2)} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{(n_i - n_{is} - 1)!} \frac{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_{is} - n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(n_s - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l - 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i - l_s - s + 1)!}{(D - l_i)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1}^n \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i - j_s + 1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + 1 \wedge$$

$$k: z = 1 =$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l - l + 1} \sum_{i=l_{ik} + s - j_{sa}^{ik} + 2}^{j_s - 1} \\
 & \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{j_i - k} \\
 & \frac{(n_i - j_s + 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - j_s + 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_i + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{()} \sum_{(j_s = j_i - s + 1)}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{j_i = l_i + n - D}^{()} \\
 & \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \\
 & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{()}
 \end{aligned}$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)}^{l_i - l + 1} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i = n + lk}^n \sum_{(n_{is} = n + lk - j_s)}^{(n_i - j_s + 1)} \sum_{n_i = j_i + 1}^{n_i + j_s - j_i - lk}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i + n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - j_s - 1)!}{(n_i + j_s - 1)! \cdot (n_{is} + j_s - j_i)!} \cdot$$

$$\frac{(n_i - j_s - 1)!}{(n_i + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - l - 1)!}{(D - j_s - l + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)}^{l_i - l + 1} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i = n + lk}^n \sum_{(n_{is} = n + lk - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - lk)}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_{ik} + j_s + j_{sa}^{ik} - l - \mathbb{k})}^{(\)}$$

$$\frac{(n_i + i + j_{sa}^s - j_s - 2 \cdot s - 1)!}{(n_i - n - \dots) \cdot (i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l)}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq -n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq l_i \wedge$$

$$l_i - j_{sa}^{ik} + \dots \geq l_s \wedge l_i - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + \dots = n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq \dots \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$s: \{ \dots, j_{sa}^i \} \wedge$$

$$s = 2 \wedge s = \dots + \mathbb{k} \wedge$$

$$\dots \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i - s + 1)} \sum_{(j_s = 2)}^{l_s + s - l} \sum_{j_i = l_{ik} + n + s - D - j_{sa}^{ik}}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{l_i} \sum_{(j_s=2)}^{(l_s-l+1)} \sum_{j_i=l_s+s-l+1}^{l_{ik}+s-l-j_{s\bar{a}}^{ik}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

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$$\sum_{k=l}^{(\cdot)} \sum_{(j_s=j_i-s+1)}^{(\cdot)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{(\cdot)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik})}^{(\cdot)}$$

$$\frac{(n_i+j_i+j_{sa}^s-j_s-s-1)!}{(n_i-n-l)! \cdot (n_{is}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(D-j_s-n-l_i)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - j_{sa}^{ik} = l_{ik} \wedge$

$D + s - n < l_i \leq n - l_s + s - n - 1 \wedge$

$D > n < n \wedge l = k \geq 0$

$j_{sa}^s = j_{sa}^i - 1 \wedge$

$\{j_{sa}^s, l_{sa}^i\} \wedge$

$s = 2 \wedge s = j_s - l_k \wedge$

$l_k = 1$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(\cdot)} \sum_{(j_s=2)}^{(\cdot)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{l+1} \sum_{j_s=l_{ik}+n-D-j_s^{ik}+1}^{j_s^{ik}+1} \sum_{j_i=j_s+s-1}$$

$$\sum_{i_s=n+l_k-j_s+1}^n \sum_{n_{is}=n-j_i-l_k}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_{ik}+n-D-j_s^{ik}+1}^{j_s^{ik}+1} \sum_{j_i=j_s+s-1}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(\quad)}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}$$

$$\frac{(l_s - l - 1)! \cdot (l_s - 2)!}{(l_s - j_s - 1)! \cdot (l_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n \wedge l = 0 \wedge$

$j_{sa}^s = j_{sa}^l - 1 \wedge$

$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$

$s = 2 \wedge \mathbb{k} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{k=l}^{l_s-l} \sum_{n_{ik}+n_{js} = j_s+s-1} \sum_{n_i=n+l}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \vee$$

$$D \geq n < n \wedge l \neq l \wedge l_s \geq l \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = l + k \wedge$$

$$k = l \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{l_s} \sum_{l=2}^{l_s} \sum_{j_i=l_s+s-l+1}^{l+1} \sum_{n=n+l}^n \sum_{n_s=n+l-k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)} \sum_{j_i=s+1}^{l_s+s-l}$$

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$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - 1)!}{(n_i - n - 1)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s - 1)!}$$

$$\frac{(l_s - l - 1)! \cdot (l - 2)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq D + s - n) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq D + s - n) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq D + s - n) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

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$$f_z = \frac{\sum_{k=l}^{l-1} \sum_{j_s=2}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n-j_s+1} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=2}^{(l_i-l+1)} \sum_{j_i=j_s+s-1}^{(n_i-l+1)} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(D - l)!}{(D + j_i - n - l)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{j_i=1}^{(j_i-s+1)} \sum_{(j_s=2)}^{s-l} \sum_{j_i=1}^{(j_i-s+1)} \sum_{j_i=1}^{s-l} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l_i}^{l_s+s-1} \sum_{n_i=n+l_k}^{n_{is}=n+l_k-j_s+1} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}}^{n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n - 1 \wedge l_i \neq l_s \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_i = l_s \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = l \wedge k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)}^{l+1} \sum_{j_i = j_s + s - 1}^{n_i + j_s - j_i - k} \frac{(n_i - j_s + k)! \cdot (n_{is} + j_s - j_i - k)!}{(n_i + k)! \cdot (n_{is} + k - j_s + s - 1)! \cdot (j_i + 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)}^{l+1} \sum_{j_i = j_s + s - 1}^{n_i - j_s + 1} \sum_{n_i = n + k}^{(n_{is} = n + k - j_s + 1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{s}-l_k)}^{()}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz^{OST} = \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=2}^{(l_s-l+1)} \sum_{j_i=l_i+n-D}^{(l_s-l+1)}$$

$$\sum_{n_i=1}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(\quad)}$$

$$\frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-I)!}{(n_i-n-I)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s-I)!}$$

$$\frac{(l_s-l-j_s-1)! \cdot (j_s-2)!}{(l_s-j_s-1)! \cdot (j_s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-j_s-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_i = l_{ik} \wedge l_{sa} + j_{sa} - s > 0 \wedge$$

$$D + s - n < l_i \leq D + l_s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s = (j_{sa}^s, \mathbb{k}, j_{sa}^i)$$

$$s = 2 \wedge s = s + \mathbb{k}$$

$$\mathbb{k}_z: z = \dots \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\begin{aligned}
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{sa} - l - j_{sa} + 1)} \sum_{(j_s=2)}^{l_i - l} \sum_{j_i=l_{sa}+s-l-j_s}^{l_i - l} \cdot \\
 & \sum_{n_i=n+k}^{(n_i - j_s + 1)} \sum_{n_i=n+k-j_s+1}^{n_i + j_s - j_i - k} \sum_{j_i+1}^{n_i + j_s - j_i - k} \cdot \\
 & \frac{(n_s - n_{is} - 1)!}{(j_s - 2)! \cdot (n_s - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_s - n_s - 1)!}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^{()} \cdot \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \cdot
 \end{aligned}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}} \frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-l)!}{(n_i-n-l)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-l)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} \wedge l_i + j_s - s > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + 1 \wedge$$

$$\mathbb{k}: z = 1 =$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{\binom{()}{j_s=2}}^{l_i-l+1} \sum_{j_i=l_i+n-D} \sum_{n_i=n+\mathbb{k}}^n \sum_{\binom{()}{n_{is}=n+\mathbb{k}-j_s+1}}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_i-l_k} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{(n_i-l_k)} \\
 & \frac{(n_{is}-1)!}{(j_s - 1)! \cdot (n_i - n_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}
 \end{aligned}$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - j_{sa} = l_{ik} - j_{sa}^{ik} + 1$$

$$D + s - n < l_i \leq D + l_s + s - n - l_i \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-}$$

$$\sum_{n_i=n}^n \sum_{=n+j_s+1}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+} \sum_{=n_{ik}+j_s}^{(j_s)} \sum_{=j_i-j_{sa}^s-k}^{(j_s)}$$

$$\frac{+ j_i + \dots - j_s - 2 \cdot s)!}{(n_i - n)! \cdot (n + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - s + 1 \wedge$$

$$1 \leq j_i \leq j_i - s + 1$$

$$j_s - s - 1 \leq j_s \leq n \wedge$$

$$l_{ik} + j_{sa}^{ik} + 1 = l_s \wedge l_{ik} + j_{sa}^{ik} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$s + s - 1 \leq l_i \leq D + s - n - 1 \wedge$$

$$D \geq n < n \wedge l_s \leq D - s + 1 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s \in \{j_{sa}^s, \mathbb{k}_z\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_{Z_{j_s, j_i}}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_{sa}^{lk}+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik+s-l-j_{sa}^{lk}+1}} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{n_{is}+j_s-j_i-l_k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - j_s - l + 1)!}{(j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_{ik}-l-j_{sa}^{lk}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{ik}+s-l-j_{sa}^{lk}+2}^{l_{sa}+s-l-j_{sa}+1} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik+s-l-j_{sa}^{lk}+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(n_i-j_s+1)} \sum_{n_i=n+l_k}^n \sum_{(n_{is}+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}}^{(n_{ik}+j_s+j_{sa}^{lk}-j_{sa}^{lk})} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}{(n_i - n - j_{sa}^s - j_s - 2 \cdot s)!} \frac{(l_s - l_i)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(l_i - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq n - 1$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_i - j_{sa}^{lk} + j_{sa}^{lk} = l_s \wedge l_s + j_{sa}^{lk} - j_{sa} > l_i \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + j_{sa} - n - 1 \wedge$

$D \geq l_i < n \wedge l = k \geq 1 \wedge$

$j_{sa}^s = j_{sa}^i \wedge$

$s: \{j_{sa}^i, j_{sa}^i\} \wedge$

$s = 2 \wedge s = j_{sa}^i + k \wedge$

$l_s = j_{sa}^i \Rightarrow$

$$fz_{j_s j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l_s-l}^{l_s-l+1} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \binom{l_{ik}-j_{ik}+2}{s_a+2} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

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$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(n-j_s+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{()}$$

$$\frac{(n_i+j_i+j_{sa}^s-j_s-s-1)!}{(n_i-n-l)! \cdot (n_{is}+j_{sa}^s-j_s-s)!}$$

$$\frac{(l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D-l)}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$

$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s + j_{sa}^s + j_{sa}^{ik} - j_{sa}^s - j_{sa}^{ik} + j_{sa} - s = l_{sa} \wedge$

$D - s - n < l \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n \wedge l = 0 \wedge$

$l_s = j_{sa}^s - 1 \wedge$

$s: \{j_{sa}^s, k, j_{sa}^i\}$

$s = 2 \wedge s = s + k \wedge$

$k_z: z = 1$

$$f_z^{SDOST}_{j_s, j_i} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l - l_s - s + 1)!}{(j_s + l_i - l_s - l - s + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{n_{is}=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i-l_k} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_i-j_s+1)} \\
 & \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + 1 \wedge$$

$$k: z = 1 =$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-k}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}-n_s-1)!}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s-l+1}^{j_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l_k}$$

$$\frac{(n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D > n \wedge n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$s \in \{j_{sa}^i, j_{sa}^s\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_{zS}^{DOST}_{j_s, j_i} = & \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s - l - 1)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i = n + k}^n \sum_{(n_{is} + k - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_{ik} + j_s + j_{sa}^{ik} - k)}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - 1)!}{(n_i - n - j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1) \vee$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=2)}^{l_{sa}+s-1} \sum_{j_{sa}=n+s-D-j_{sa}}^{j_{sa}+1} \sum_{n_i=0}^n \sum_{(n_{is}=n+k-j_s+1)}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1}$$

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$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(\quad)}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}$$

$$\frac{(l_s - l - j_s - 1)! \cdot (l_s - 2)!}{(l_s - j_s - 1)! \cdot (l_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - j_s - l_i)! \cdot (n - j_s - l_i)!}$$

$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq D + s - n) \vee$

$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq D + s - n) \vee$

$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq D + s - n) \vee$

$(D \geq n < n \wedge l = l_i \wedge l_i \leq D + s - n \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz^S_{j_s, l} = \sum_{k=0}^n \sum_{j_s=1}^{()} \sum_{j_i=s}^{l_i - i^{l+1}}$$

$$\sum_{n_i=n+k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-k+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$\sum_{k=0}^n \sum_{j_s=1}^{()} \sum_{j_i=s}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{QST} = \sum_{k=l}^{(j_i - l + 1)} \sum_{j_i = l_i + n - D - j_{sa}^{ik} + 1}^{l_{ik} + s - l - j_{sa}^{ik} + 1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n - l_k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{ik}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
 & \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(l_i+n-s)} \sum_{(l_{ik}+n)}^{l_i-l+1} \sum_{(l_{ik}+1)}^{l_i+n-D} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_s - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{l_{ik} - l - j_{sa}} \sum_{j_s = l_i + k - s + 1}^{n - j_s - 1} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = n + k}^n \sum_{n_{is} = n + k - j_s + 1}^{(n_i - j_s + 1)} \sum_{n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{ik} - k}^{(n_i - j_s + 1)} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l_s > D - n + 1 \wedge$$

$$D - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-j_{sa}^{ik}+1)}^{(j_s+1)} \sum_{j_i=l_{ik}+n-D}^{(l_i-l+1)} \sum_{n_i=n+\mathbb{k}-j_s}^{n_i=n-j_i-\mathbb{k}} \frac{(n_i - j_s - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(j_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{(j_s+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i - l_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s}^D = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_s + n - D)}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{j_i = l_s + s - l + 1}$$

$$\sum_{n_i = n + l_k}^n \sum_{(n_{is} = n + l_k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{= n - j_i + 1}^{n_{is} + j_s -}$$

$$\frac{(n_i - n_{is} -)}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i - l)}$$

$$\frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l)}$$

$$\frac{(n_s - j_i - n - l - j_i)!}{(j_s - l - 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l - 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l - 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{()} \sum_{(j_s = j_i - s + 1)}^{l_s + s - l} \sum_{j_i = l_{ik} + n + s - D - j_{sa}^{ik}}$$

$$\sum_{n_i = n + l_k}^n \sum_{(n_{is} = n + l_k - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - l_k)}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_{z, i}^{DOST} = \sum_{k=l}^{n+n-D-j_s} \sum_{(j_s=l_{ik}+n-D)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n} \sum_{n_i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_s}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i-k}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - k - 1)! \cdot (n - j_i - k)!} \cdot \\
 & \frac{(l_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
 & \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$((D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, j_{sa}^{ik}, k, j_{sa}^i\}$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{l_s+s-l} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+k}^n \sum_{(n_i=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{j_i=l_i-l+1}^{(l_i-l+1)} \sum_{n_s=n-j_i+l-k}^{(n_i-j_s+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l-k}^{(n_i-j_s+1)}$$

$$\frac{(n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$D \geq n < n \wedge l_s > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^s - 1 \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^i, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > n - l_s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 =$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n = n + \mathbb{k}}^n \sum_{n_s = n + \mathbb{k} - j_s + 1}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}$$

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$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{()}$$

$$\frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-I)!}{(n_i-n-I)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s-I)!}$$

$$\frac{(l_s-l-j_s-1)! \cdot (l_s-2)!}{(l_s-j_s-1)! \cdot (l_s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-l_i)! \cdot (n-j_s-1)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 < j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{S^{DOST}} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_{is}-k+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{+j_s-j_i-\mathbb{k}}$$

$$\frac{(j_s-2)! \cdot (n_{is}-j_s+1)! \cdot (n_{is}+\mathbb{k}-1)! \cdot (j_i-j_s-1)! \cdot (n_{is}+j_s)! \cdot (j_i-\mathbb{k})! \cdot (n_s-1)! \cdot (n+j_i-1)! \cdot (n-j_i)! \cdot (l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)! \cdot (l_i-l_s-s+1)! \cdot (j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)! \cdot (D-l_i)! \cdot (D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \sum_{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-l)!}{(n_i-n-l)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz^{j_s} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{l_i-l+1}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_s - l - s - 1)!}{(j_s + l_i - l - l_s - l + 1)! \cdot (j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=0}^{()} \sum_{s=j_i-s+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^{()} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()} \\
& \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{SDOST} = \sum_{k=l} \sum_{(j_s=l_{sa} \dots D-j_{sa}+1)} \sum_{j_l=l+1}^{(l_i+n-D-s)} \dots$$

$$\dots \frac{(n_i - j_s - 1)! \cdot (n_{is} + j_s - j_i - 1)!}{(j_s - 2)! \cdot (n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - 1)! \cdot (n_s - k - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\dots \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\dots \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-l+1} \dots$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\dots \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

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$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{n_{is}=n+l_i}^{(l_{sa}-l_i+2)} \sum_{n_{is}=j_s+s-1}^{n_{is}=n+l_i} \sum_{n_{is}=n+l_i}^n \sum_{n_{is}=n+l_i-j_s+1}^{(n_{is}-j_s+1)} \sum_{n_{is}=n_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge I > D - n + 1 \wedge$$

$$D - n_s + j_s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_{sa}^s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i-l+1)} \sum_{j_i=l_i+n}^{(l_i-l+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_i-j_s-\mathbb{k})}$$

$$\frac{(j_s-2)! \cdot (n_{is}-j_s+1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s)!} \cdot \frac{(n_s-1)!}{(n+j_i-1)! \cdot (n-j_i)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!}$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_i-l+1)} \sum_{j_i=j_s+s-1}^{(l_i-l+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)}$$

$$\frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-l)!}{(n_i-n-l)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^l - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^l\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^l\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SDG} = \sum_{l=1}^{s-1} \sum_{j_s=l_{ik}+n-D}^{l-s+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{lk}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

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$$\begin{aligned}
 & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - l_k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_i-j_s+1)} \\
 & \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{j_s=l_{ik}+1}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{j_i=l_{sa}+j_s-D-j_{sa}}^{(l_{sa}+s-l-j_{sa}+1)} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_{is}+j_s-j_i-k)} \sum_{n_s=n-j_i+1}^{(n_s+n-j_i+1)}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_s - 1)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=0}^{\lfloor \frac{l_s - l - j_{sa}^s + 1}{2} \rfloor} \sum_{j_i = j_s + s - 1}^{\lfloor \frac{l_s - l - j_{sa}^s + 1}{2} \rfloor} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \\
& \sum_{k = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{ik} - \mathbb{k})} \binom{()}{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!} \\
& \frac{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}{(l_s - l - 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n - l_s > D - n + 1 \wedge$$

$$D - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

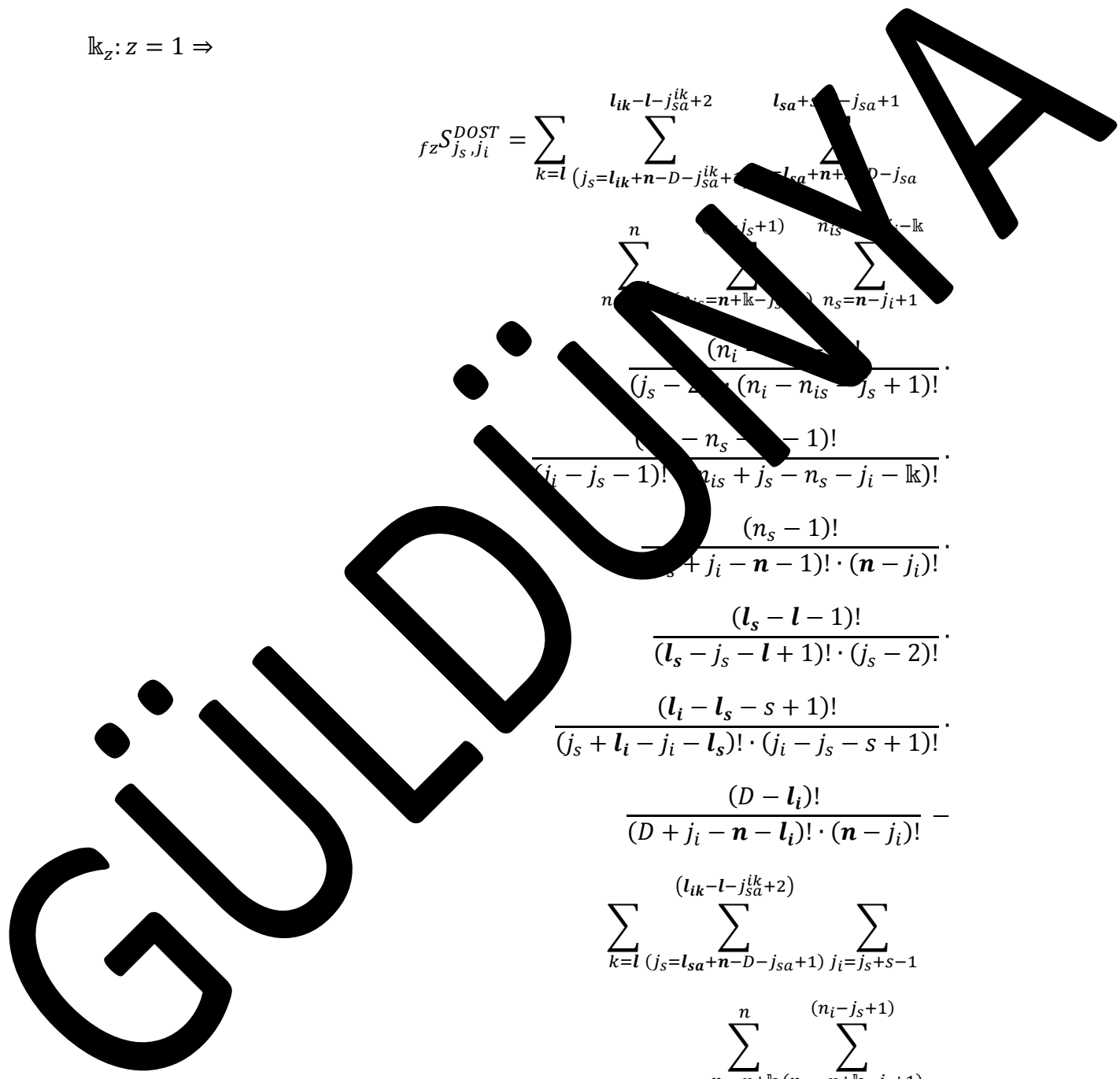
$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s > 2 \wedge \mathbf{s} = \mathbf{s} + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1) \dots (l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+n-j_{sa}+1} \sum_{n_i=n+1}^n \sum_{n_s=n-j_i+1}^{n_i-j_s+1} \frac{(n_i)!}{(j_s-2)! (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_i-n_s-1)!}{(j_i-j_s-1)! (n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{j_i=j_s+s-1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$



$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l_s > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, l_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, l_{sa}^i\} \wedge$$

$$s > j_{sa}^{ik} = s + l_{sa} \wedge$$

$$l_{kz}: z = 1 =$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l} \sum_{n_i=n+l_{kz}}^n \sum_{(n_{is}=n+l_{kz}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_{kz}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}$$

$$\frac{(l_s - l - 1)! \cdot (l - 2)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_i > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D > n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} = & \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}+k-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{ik}+j_s+j_{sa}^k)}^{(n_{ik}+j_s+j_{sa}^k)} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l_i + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l_s > D - n + 1) \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1) \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \wedge n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_{sa} + j_{sa} - j_s \wedge l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee \\ & ((D \geq n < n \wedge l_s > D - n + 1) \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1) \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \wedge n \wedge \\ & l_{ik} - 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee \\ & ((D \geq n < n \wedge l_s > D - n + 1) \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1) \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \end{aligned}$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l-1)} \sum_{j_i=l_s+n-D}^{l_{sa}+s-1} \sum_{j_s=l_s+n-D-j_{sa}}^{l_{sa}+s-1} \frac{(n_i - j_s - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(n_i - n_{is} - \mathbb{k} - 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-lk}} \frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-l)!}{(n_i-n-l)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-l)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n \wedge$$

$$D \geq n < n \wedge l = lk > 0 \wedge$$

$$j_{sa}^{lk} = j_{sa}^l - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, lk, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{lk}, lk, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + 1 \wedge$$

$$lk: z = 1 =$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{lk}+1} \sum_{j_i=s+1} \sum_{n_i=n+lk}^n \sum_{(n_{is}=n+lk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-lk} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - lk - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - lk)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l-l+1} \sum_{j_i=l_{ik}+s-j_{sa}^{ik}+2}$$

$$\sum_{n_i=n+l-k}^n \sum_{(n_{is}=n+l-k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{j_i-k}$$

$$\frac{(n_i - n_{is} - j_s + 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_s - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=s+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-k)}^{()}$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_i - l + 1} \sum_{j_i = j_s + s - 1}^{l_i - l + 1} \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_i+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-l-k)}$$

$$\frac{(n_i + i + j_{sa}^s - j_s - 2 \cdot s - 1)!}{(n_i - n - l_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq n - 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - j_{sa}^{ik} + 1 = l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + 1 - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > n \wedge$$

$$j_{sa}^{ik} = j_{sa}^i \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^{ik}, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = i + k \wedge$$

$$k \geq 2 \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)} l_{ik+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s - l + 1)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{s=2}^{(l_{ik} - j_{s\bar{a}}^{ik} + 2)} \sum_{j_i=l_{ik}+s-l-j_{s\bar{a}}^{ik}+2}^{l_i-l+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{lk})}^{()} \frac{(n_i+j_i+j_{sa}^s-j_s-s-1)!}{(n_i-n-l)! \cdot (n_{is}+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-l-1)!}{(j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(D-l-1)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - j_{sa}^{lk} \geq l_{ik} \wedge$

$D + s - n < l_i \leq l_s + s - n - 1 \wedge$

$D > n < n \wedge l = k > 0$

$j_{sa}^{ik} - j_{sa}^i - 1 \wedge j_{sa}^s - j_{sa}^{ik} - 1$

$S: \{j_{sa}^s, \dots, l_k, j_{sa}^i\} \vee S: \{j_{sa}^i, \dots, j_{sa}^{ik}, l_k, j_{sa}^i\} \wedge$

$s > 2 \wedge s = j_s - l_k \wedge$

$l_k = 1$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}^{l + 1} \sum_{n_{is} = n + \mathbb{k} - j_s + 1}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(\)}$$

$$\frac{(n_i+j_i+j_{sa}^s-j_s-2 \cdot s-I)!}{(n_i-n-I)! \cdot (n+j_i+j_{sa}^s-j_s-2 \cdot s-I)!}$$

$$\frac{(l_s-l-j_s-1)! \cdot (l_s-2)!}{(l_s-j_s-1)! \cdot (l_s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-l_i)! \cdot (n-j_i)!}$$

- $D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$
- $D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$
- $2 \leq j_s \leq j_i - s \wedge$
- $j_s + s \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$
- $D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$
- $D \geq n < n \wedge l = i > 0 \wedge$
- $j_{sa}^{ik} = j_{sa}^l - j_{sa}^s \leq j_{sa}^l - 1 \wedge$
- $s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \{j_{sa}^s, \dots, j_{sa}^{ik}, j_{sa}^l\} \wedge$
- $s > 2 \vee s = s + \mathbb{k} \wedge$
- $\mathbb{k}_z: z = 1 \Rightarrow$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{k=0}^{(l_{ik} - l_{is} - \mathbb{k} + 2)} \sum_{i_c=l_i+1}^{i_c+l_s-1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{\substack{(\cdot) \\ i_k=n_{is}+j_{sa}^s-j_{sa}^{ik} \\ (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_s}^{l_s+s-l}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}{(n_s - 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-l+1}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{ik}+n+l_s-l}^{()} \sum_{n_i=n}^{()} \sum_{n_{is}=n+l_k-j_s+1}^{()} \frac{(n_i + j_i - j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n_i + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n + l \wedge l \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D - l_s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n + l \wedge l = k > 0 \wedge$$

$$j_{sa}^s - j_{sa}^s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{S_{DOST}} &= \sum_{k=l}^{(l_{ik}+n-D-j_{s\bar{a}}^{ik})} \sum_{(j_s=2)}^{(n_i-j_s+1)} \sum_{j_i=l_{ik}+n+s-D-j_{s\bar{a}}^{ik}}^{l_{ik}+s-l-j_{s\bar{a}}^{ik}+1} \\
&\quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-\mathbb{k}} \\
&\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\quad \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
&\quad \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\quad \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\quad \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\quad \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
&\quad \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{s\bar{a}}^{ik}+1)}^{(l_{ik}+s-l-j_{s\bar{a}}^{ik}+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{s\bar{a}}^{ik}+1} \\
&\quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
&\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\quad \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
&\quad \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\quad \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\quad \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)} \sum_{j_i = j_s + s - 1} \sum_{n_i = n + k}^n \sum_{(n_i - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_i - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_i - j_s + 1)}^{(n_i - j_s + 1)} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - 1)!}{(n_i - n - \dots) \dots} \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq \dots - n + 1$$

$$D + l_s + s - n - l_i + 1 \leq \dots \wedge l - 1$$

$$1 \leq j_s \leq j_i - s$$

$$j_s + s \leq j_i$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^s - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + \dots + s - n - 1 \wedge$$

$$D \geq n < n - l = k > \dots$$

$$j_{sa}^{ik} - j_s^s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s + \dots = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = 2)}^{(l_s - l + 1)} \sum_{j_i = l_{ik} + n + s - D - j_{sa}^{ik}}^{l_{ik} + s - l - j_{sa}^{ik} + 1}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l - l_s - s + 1)!}{(j_s + l_i - l_s - l + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=1}^{(l_s-l+1)} \sum_{(i=n_k+n-D-j_{sa}^{ik}+1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(\quad)} \\
 & \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}^{n_i} \\
 &\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{n_i} \\
 &\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{(j_s=j_{i-s+1})} \sum_{j_i=s+1}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{i-s}+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-l_k)}^{(n_{ik}+j_s+j_{sa}^{ik}-l)}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l)!}{(l_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} \leq n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{lk} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1}^{(l_s-l+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik})}^{()}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - s - 1)!}{(n_i - n - l)! \cdot (n_i + j_{sa}^s - j_s - s)!}$$

$$\frac{(j_s - l - 1)!}{(j_i - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D + j_s - n - l_i)! \cdot (n - j_i)!}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - s \leq l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_{z^s}^{OST} = \sum_{k=l}^{(j_i-s+1)} \sum_{\substack{j_s=2 \\ j_i=l_i+n-D}}^{j_s+l} \sum_{n_i=1}^n \sum_{\substack{n_i-j_s+1 \\ (n_{is}=n+\mathbb{k}-j_s+1)}}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l - l_s - s - 1)!}{(j_s + l_i - l - l_s - j_i - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{l=1}^{(j_s)} \sum_{j_i=l_i+n-D}^{l_s+s-l} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}}^{(j_s)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^s-l_k)}^{(j_s)} \\
 & \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$D \geq n < n \wedge l = l > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_z, j_i\} \vee s: \{l_i, \dots, j_{sa}^{ik}, \mathbb{k}_z, j_{sa}^i\} \wedge$$

$$s > 0 \wedge \mathbb{k}_z = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 =$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}$$

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$$\sum_{n_i=n+l_k}^n \sum_{(n_i=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(\)}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1) \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_{ik} \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1) \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1) \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\}$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$S_{j_s, l_s}^{DOST} \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{(l_s-l+1)}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{()}$$

$$\frac{(n_i+j_i+j_{sa}^s-j_s-s-1)!}{(n_i-n-l)! \cdot (n_{is}+j_{sa}^s-j_s-s)!} \cdot \frac{(j_s-l-1)!}{(j_i-l+1)! \cdot (j_s-2)!} \cdot \frac{(D+j_s-n-l_i)! \cdot (n-j_i)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge l_{sa} + j_{sa}^s - s > l_{sa} \wedge$

$D + s - n < l_i \leq l_s + s - n - 1 \wedge$

$D > n < n \wedge k > 0$

$j_{sa}^{ik} - j_{sa}^i - 1 \wedge j_{sa}^s - j_{sa}^{ik} - 1$

$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$

$s > 2 \wedge s = j_{sa}^s - k \wedge$

$k_{sa}^i = j_{sa}^i - k$

$$fz^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{(j_i-s+1) l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^n \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{sa+s-l-j_{sa}+1}}$$

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$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}$$

$$\frac{(l_s - l - 1)! \cdot (l_s - 2)!}{(l_s - j_s - 1)! \cdot (l_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$

$1 \leq j_s \leq j_i - s + 1$

$j_s + s - 1 \leq j_i \leq n$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_i = l_{ik} \wedge l_{sa} + j_{sa} - s > 0$

$D + s - n < l_i \leq D + l_s - n - 1$

$D \geq n < n \wedge I = \mathbb{k} > 0$

$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1$

$\mathcal{S} = \{j_{sa}^s, \dots, \mathbb{k}\} \vee \mathcal{S} = \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$

$s > 2 \wedge s = s + \mathbb{k}$

$\mathbb{k}_z: z = \dots \Rightarrow$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i + n - D - s)} \sum_{(j_s=2)}^{l_i - l + 1} \sum_{j_i = l_i + n - D}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\begin{aligned}
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l+1} \sum_{j_i=j_s+s-1}^{l+1} \\
 & \sum_{n_i=n+k}^{(n_i-j_s+k)} \sum_{(n_i=n+k-j_s+s)}^{n_{is}+j_s-j_i-k} \sum_{j_i+1}^{j_i+1} \\
 & \frac{(n_{is} - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}
 \end{aligned}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i \wedge l_i + j_{sa} - j_s = l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$

$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \wedge s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s > 2 \wedge s = i + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n_i+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l_s+2)} \sum_{(j_s=l_i, \dots, D-s+1)} \sum_{j_i=j_s+1}^{n} \sum_{n_i=n+l_k}^{(n_i-j_s+1)} \sum_{(n_i, \dots, j_s+1)} \sum_{(n_i, \dots, j_s+1)} \sum_{(n_i, \dots, j_s+1)} \frac{(n_i - j_s + 1)!}{(n_i + j_s - j_s - 2 \cdot s - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_s + 1 \leq j_i$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i + s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_{s_a}^k+1}} \sum_{j_i=l_{sa+n+s-D-j_{sa}}}^{n_{is+j_s-j_i}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is+j_s-j_i}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s + j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l - s + 1)!}{(j_s + l - l - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik-l-j_{s_a}^k+2})} \sum_{(j_s=2)}^{l_{sa+s-l-j_{sa}+1}} \sum_{j_i=l_{ik+s-l-j_{s_a}^k+2}}^{n_{is+j_s-j_i}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is+j_s-j_i}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(\cdot)} \sum_{\substack{j_s=j_i-s+1 \\ j_i=l_{sa}+n+l-k-j_s+1}}^{l_{ik}+s-1-j_{sa}^{ik}+1} \sum_{n_i=n}^n \sum_{n_{is}=n+l-k-j_s+1}^{n} \sum_{n_{ik}=n_{is}-j_{sa}^{ik}(n_{is}-l-k+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(\cdot)} \frac{(n_i + j_i - j_{sa}^s - j_s - 2 \cdot s - l)!}{(n - n - l)! \cdot (n_i + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l \neq l \wedge l \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D - l_s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n - l = \mathbb{k} > 0 \wedge$$

$$j_{sa} - j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOST} = & \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-l_k} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l}^{(l_{ik}-l-j_{sa}^k+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i-l_k} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}+lk-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-l-k)}^{(n_i-j_s+1)} \frac{(n_i + i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - j_s + j_{sa}^s - j_s - 2 \cdot s)!} \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq n - 1$$

$$D + l_s + s - n - l_i + 1 \leq l_s - l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i - 1 \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s - l_{sa} + j_{sa}^s - j_s - l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + s - n - 1 \wedge$$

$$D \geq n < n - l = lk > \wedge$$

$$j_{sa}^{ik} - j_s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, lk, j_{sa}^i\} \wedge$$

$$s - j_{sa}^s = s + lk \wedge$$

$$lk_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l - l_s - s - 1)!}{(j_s + l_i - l_s - l - s + 1)! \cdot (i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{i=1}^{l_i} \sum_{j_s=n-D-j_{sa}+1}^{n-D-j_{sa}+2} \sum_{j_i=j_s+s-1}^{j_s+s} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_i-j_s+1)} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, k, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + 1 \wedge$$

$$k: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_s+n-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s-l+1}^{j_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l_k}$$

$$\frac{(n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

GÜLDÜZÜM

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - I)!}{(n_i - n - I)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D > n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOST} = & \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s - l - 1)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1} \sum_{n_i = n + k}^n \sum_{(n_{is} + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{ik} + j_s + j_{sa}^{ik} - l - k)}^{(n_{ik} + j_s + j_{sa}^{ik} - l - k)} \frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l_i + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1) \vee (D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1) \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge \\ & 1 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\ & D + s - n < l_i \leq D + l_s + s - n - 1) \vee \\ & ((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1) \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge \\ & 1 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\ & D + s - n < l_i \leq D + l_s + s - n - 1) \vee \\ & ((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1) \wedge \end{aligned}$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^l - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^l\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^l\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz^{S_{j_s, j_i}} = \sum_{k=l}^{(l_s-1)} \sum_{(j_s=2)}^{l_{sa}+s-1} \sum_{j_{sa}^{sa+1}}^{j_{sa}^{sa+1}} \sum_{n_i=1}^n \sum_{(n_{is}=n+k-j_s+1)}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{()}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}{(n_i - n - l)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s - l)!}$$

$$\frac{(l_s - l - 1)! \cdot (l_s - 2)!}{(l_s - j_s - 1)! \cdot (l_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s}^{D+l} = \sum_{k=1}^l \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{l_i - i l + 1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$\sum_{k=1}^l \sum_{(j_s=1)}^{()} \sum_{j_i=s}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - k)!}{(n_i - n - k)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

GÜLDÜNYA

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{(l_{ik}+s-l-j_{sa}^{ik})} \sum_{(n_i=n-j_s+1)}^{(n_i+j_s-j_i)} \frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_i-l+1)} \sum_{(j_i=l_{ik}+s-l-j_{sa}^{ik}+2)}^{(n_i-j_s+1)} \sum_{(n_i=n-j_s+1)}^{(n_{is}+j_s-j_i)} \sum_{(n_s=n-j_i+1)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{j_s - j_i} \sum_{j_i = l_i + n - D}^{j_s + k} \sum_{n_i = n + k}^n \sum_{n_{is} = n + k - j_s + 1}^{(n_i - j_s + 1)} \sum_{k = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)} \frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_i-l+1} \sum_{j_i=l_i+n}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)}^{j_i - l_s + s - 1} \sum_{n_i = n - l_i}^n \sum_{n_{is} = n + k - j_s + 1}^{n - j_s + 1} \frac{(n_{is} + s - k)!}{(n_{is} + j_s - n - k - j_s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l_i + 1 > D - l_i + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l_i < D - n + 1 \wedge$$

$$2 \leq j_s < j_i - s \wedge$$

$$j_s + s \leq j_i < n \wedge$$

$$l_i - j_{sa}^{ik} - 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n - l_i = k = 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_z^{S_{j_s, j_i}^{DOST}} = & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - n_{is} - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
 & \frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s-1)} \sum_{(j_s=l_s+n-D)}^{j_i+l-1} \sum_{j_i+n+s-D-j_{sa}^{lk}}^{j_i+l-1} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{ik}+s-l-j_{sa}^{lk}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D - n - 1)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{n_i - j_i - s + 1} \sum_{l_{ik} = l_{ik} + n + s - D - j_{sa}^{ik}}^{n_i - j_i - s + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{\mathbb{k} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{(n_i - j_s + 1)} \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$

$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{(j_s=l_s+n-D)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_s}^{n} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_s-n_{is}-1)!} \frac{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}{(n_i-n_{is}-1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(l_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{n} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \frac{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}{(n_i-n_{is}-1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)}^{j_s = l_s + s - 1} \sum_{n_i = n - k}^n \sum_{n_{is} = n + k - j_s + 1}^{j_s}$$

$$\frac{(n_{is} + s - k)!}{(n_{is} + j_s - n - k - j_s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee (D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee (D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_s+s+1)} \sum_{j_i=l_i+s-l}^{(j_s+n-D)} \frac{\binom{n}{n_i-j_s+1} \binom{n_{is}+j_s-j_i}{n_{is}-j_i+1}}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(j_s-n_s-1)!}{(j_s-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l_i}^{l_s+s-1} \sum_{n_i=n+k-j_s+1}^{n_i=n+k} \sum_{n_{is}=n+k-j_s+1}^{(n_i - j_s + 1)}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee (D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{i_i}^{POST} = \sum_{k=l}^{(l_s - l + 1)} \sum_{j_i=l_i+n-D}^{(l_s - l + 1)} \sum_{j_i=l_i+n-D}^{(l_s - l + 1)} \frac{(n_i - j_i + 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s - l + 1)} \sum_{j_i=l_i+n-D-s+1}^{(l_s - l + 1)} \sum_{j_i=j_s+s-1}^{(l_s - l + 1)}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l - l_s - s - 1)!}{(j_s + l_i - l_s - l - s + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{(l_s-l+1)} \sum_{i=l_i+n-D-s+1}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{(l_s-l+1)} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(n_i-j_s+1)} \\
& \frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \vee$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n} \sum_{(n_i=n-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{j_s} \sum_{j_i=j_s+s-1}^{n} \sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_{is}=n+k-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}=n_{is}+j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \sum_{(n_{ik}=n_{is}+j_{sa}-k)}^{(n_{ik}=n_{is}+j_{sa}-k)}$$

$$\frac{(n_{is}+j_{sa}-k)!}{(n_{is}+j_{sa}-n-k-j_i)! \cdot (n+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_i > D - l_s + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + j_{sa} = l_s \wedge l_s \wedge j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$D > n \wedge I = \mathbb{K} = 0 \wedge$

$j_{sa}^s \leq j_{sa}^i \wedge$

$s \in \{j_s, j_i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{j_s} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1}$$

$$\begin{aligned}
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{sa}-l-s+2)} \sum_{j_{sa}=n_{sa}+k}^{l_{sa}+n_{sa}-j_{sa}+1} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{(l_{sa+s-l-j_{sa}+1})} \sum_{j_i=l_i+n-D}^{(n)} \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{(n_{is}-s-k)} \frac{(n_{is}-s-k)!}{(n_{is}+j_s-n-k-j_{sa}^s) \cdot (n+j_{sa}-s)!} \cdot \frac{(l_i-l-1)!}{(j_i-l+1)! \cdot (j_s-2)!} \cdot \frac{(D)}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$

$D \geq n < n \wedge I = 0 \wedge$

$j_s^l \leq j_{sa}^l - 1$

$s: \{j_s^l, j_{sa}^l\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{n_{is}=n-j_s+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}+j_s-j_i}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_s-n-\mathbb{k}-j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-l)!}$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i \wedge l_i + j_{sa} - l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s =$$

$$fz^{DOST}_{j_s, j_i} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n_i-n} \sum_{(n_{is}=n-j_s+1)}^{n_i+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n}^n \sum_{n_i=n+j_s+1}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_s} \sum_{n_{ik}=n_{ik}+j_s}^{(j_s+1)} \sum_{(k-j_i-j_{sa}^s-k)}$$

$$\frac{(n_{is} - k)!}{(n_{is} + j_s - n_{ik} - k - j_{sa}^s) \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1$$

$$2 \leq j_s \leq j_i - s + 1$$

$$j_s - s - 1 \leq j_i < n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{ik} + j_{sa}^{ik} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n \wedge I = k =$$

$$j_{sa}^s \leq j_{sa}^i - 1$$

$$s: (j_{sa}^i, j_{sa}^s)$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\begin{aligned}
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^l \sum_{(j_{sa}^{ik}+1)}^{(l_{ik}-l_{sa}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_{sa}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l} \sum_{\binom{()}{j_s=j_i-s+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{\binom{()}{n_{is}=n+l_k-j_s+1}}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-l_k}}^{(n_{is}-s-l_k)}$$

$$\frac{(n_{is}-s-l_k)!}{(n_{is}+j_s-n-l_k-j_{sa}^s) \cdot (n+j_{sa}^s-s)!}$$

$$\frac{(l_s-l-1)!}{(j_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D-j_s+1)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} > l_{ik} \wedge l_{sa} - j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l = 0 \wedge$$

$$j_s \leq j_{sa}^i - 1$$

$$s: \{j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l} \sum_{\binom{()}{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{\binom{()}{n_{is}=n-j_s+1}}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n-(n_i-j_s+1)-n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n-(n_i-j_s+1)-n_{is}+j_s-j_i}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(D - l)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_i \wedge l_i + j_{sa} - l_{sa} \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s =$$

$$f_{z_{ij}}^{ST} = \sum_{k=l}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - l - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = n - l - j_s + 1}^n \sum_{n_{is} = n + k - j_s + 1}^n \frac{(n_{is} + s - k)!}{(n_{is} + j_s - n - k - j_s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{(j_i=l_{sa}+n+s-l)}^{(l_s+s)} \dots$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \dots$$

$$\frac{(j_s - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(j_s - n_s - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s+s-l+1} \dots$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \dots$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

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$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{k=l_i}^{()} \sum_{n_i=n+k}^n \sum_{n_{is}=n+l_k-j_s+1}^{l_s+s-l} \sum_{n_{sa}=n_{is}-D-j_{sa}}^{()} \frac{(n_{is} - s - k)!}{(n_{is} + n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$((D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s - l - 1)} \sum_{j_s = l_{sa} + n - D - j_{sa} + 1}^{l_s + n - l - j_{sa} + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}^{l_s + n - l - j_{sa} + 1} \frac{\binom{n_i - 1}{n_{is} = n - j_s + 1} \binom{n_{is} + j_s - j_i}{n_s = n - j_i + 1}}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s - l - 1)} \sum_{j_s = l_{sa} + n - D - j_{sa} + 1}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = j_s + s - 1}^{l_{sa} + s - l - j_{sa} + 1}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l - l_s - s - 1)!}{(j_s + l_i - l_s - l + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{(l_s-l-1)} \sum_{(j_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
& \frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{j_s+s-1} \sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_{is}=n+k-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_{is}+j_{sa}+j_{sa}^{ik}-j_i-j_{sa}^{ik})} \frac{(n_{is}+s-k)!}{(n_{is}+s-k)! \cdot (n - k - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l \leq D - n + 1$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + j_{sa} \leq l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i - j_{sa}^{ik} - s - n \wedge$

$D \geq n < n \wedge l = k = 0 \wedge$

$j_{sa}^{i-1} - j_{sa}^{i-1} - 1 \wedge$

$s: \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_s^k+1}} \sum_{j_i=s+1}^{n_{is+j_s-j_i}} \\
 &\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is+j_s-j_i}} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_{ik-l-j_s^k+2})} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_{ik+s-l-j_s^k+2}}^{l_i-l+1} \\
 &\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is+j_s-j_i}} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i+l_k)}^{()}$$

$$\frac{(n_{is} - s - l_k)!}{(n_{is} + j_s - n - l_i)! \cdot (n + j_s - j_s - s)!}$$

$$\frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_i \leq n - 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq j_s + 1 \wedge$$

$$l_{ik} - j_{sa}^{ik} + l_{sa}^{ik} = l_s \wedge l_{ik} - j_{sa}^{ik} - s > l_{ik} - j_{sa}^{ik}$$

$$D \geq n < n \wedge l = 0 \wedge$$

$$j_{sa}^s \leq j_s - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\}$$

$$s \geq j_{sa}^s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=2)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_s)} \sum_{j_i=j_s+s-1}^{(n - j_s + 1)} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i - j_s + 1)} \sum_{k=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{()} (n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k) \frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$l_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

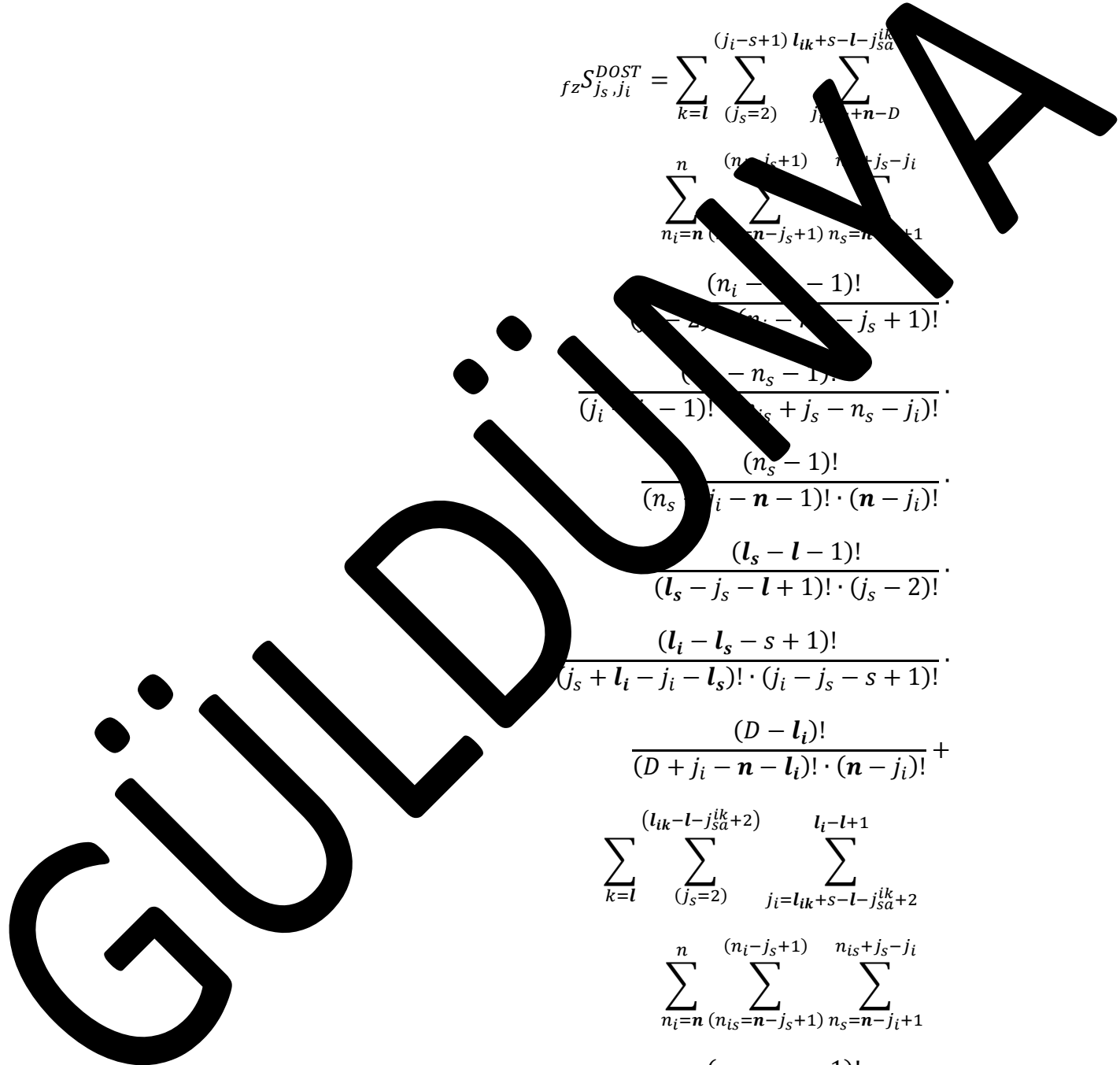
$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$

$j_{sa}^s \leq j_{sa}^i - 1 \wedge$

$s: \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_i-s+1) l_{ik+s-l-j_{sa}^{ik}}} \sum_{(j_s=2)} \sum_{j_{sa}^{ik}+n-D} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik-l-j_{sa}^{ik}+2})} \sum_{(j_s=2)} \sum_{j_i=l_{ik+s-l-j_{sa}^{ik}+2}}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$



$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_i - l_s - s + 1)} \sum_{j_s=j_s+1}^{(j_s - 2)} \sum_{j_i=l_i+n-k}^{(n - j_s + 1)} \sum_{n_i=n+k}^{(n - j_s + 1)} \sum_{j_{sa}^s=n_{ik}+j_s+j_{sa}^s-j_i-j_{sa}^s-k}^{(n - j_s - k)} \frac{(n - j_s - k)!}{(n_{is} + j_{sa}^s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i, l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_s + 1 \wedge$$

$$j_s + 1 \leq j_i - 1 \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_s < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n_i-n-j_s+1} \\
 &\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
 &\frac{(l_i - l_s - s + 1)!}{(l_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_{ik}-l-j_{s\bar{a}}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_i-n-j_s+1} \\
 &\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}
 \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = n + j_s + 1}^{(n + j_s + 1)} \frac{\binom{n_{ik} = n_{is} + j_{sa}^{ik} - n + j_s + 1 - j_i - j_{sa}^s - \mathbb{k}}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s) \cdot (n + j_{sa}^s - j_s - s)!}}{(l_s - l - 1)! \cdot (j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - i + 1 \wedge$$

$$D + s - n - l_i - 1 \leq l \leq i - 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} - 1 = l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \wedge l_s + s - n - 1 \wedge$$

$$D \geq n < i \wedge l = \mathbb{k} = 0 \wedge$$

$$s < j_i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_z^{S_{j_s, j_i}} = & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n} \\
 & \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_s+1}^{n_s-1} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + l_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{(n_i-j_s+1)} \sum_{j_i=j_s+s-1}^{n} \\
 & \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(n_i-j_s+1)} \\
 & \frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz^{S_{j_s, j_i}^{DOST}} \sum_{j_i=1}^{(j_i-s+1)} \sum_{l_s=1}^{(l_s+s-l)} \sum_{j_s=1}^{(j_s-j_i)} \sum_{n_i=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_i+j_s-j_i)} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{(l_{ik}+s-l-j_{sa}^{ik}+1)} \sum_{j_i=l_s+s-l+1}^{(n_i-j_s+1)} \sum_{n_i=n-j_s+1}^{(n_i+j_s-j_i)} \sum_{n_s=n-j_i+1}^{(n_i+j_s-j_i)}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_s - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{n_i - j_i - s + 1} \sum_{l_{ik} = l_{ik} + n + s - D - j_{sa}^{ik}}^{n_i - j_i - s + 1} \sum_{n_i = n + l_k}^n \sum_{(n_{is} = n + l_k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{k = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - l_k)} \frac{(n_{is} - s - l_k)!}{(n_{is} + j_s - n - l_k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l \wedge l_s \leq D - n + 1 \wedge$$

$$j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n-D-j_{sa}^{ik}}^{n-j_s-j_i} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_i-j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_i-n_s-1)!}{(n_i-n_s-1)!} \cdot \frac{(j_i-j_s-1)!}{(j_i-j_s-1)! \cdot (n_i+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_i-j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!}$$

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$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{l_s-l} \sum_{j_s=l_{ik}+n_{is}-j_{sa}^{ik}+1}^{j_s} \sum_{j_i=j_s+1}^n \sum_{n_i=n+k}^n \sum_{n_{is}=n_{is}-j_s+1}^{(n_i-j_s+1)} \sum_{n_{is}=n_{is}-j_{sa}^{ik}}^{(n_{is}-j_{sa}^{ik})} \sum_{n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}^{(n_{is}-j_{sa}^s-k)} \frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i, l \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$

$1 \leq j_i - s \wedge$

$j_s + s \leq j_i - n \wedge$

$i - 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n \wedge I = k = 0 \wedge$

$j_{sa}^s \leq j_{sa}^i - 1 \wedge$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{ik}}^{(n_i-j_s+1)} \sum_{n_i=n}^{n_{is}+j_s-1} \sum_{(n_{is}=n-j_s+1)}^{n-j_i+1} \frac{(n_i-1)}{(j_s-2) \cdot (n_i-n_{is}+1)!} \cdot \frac{(n_{is}-1)!}{(j_i-1)! \cdot (n_{is}-n_s-j_i)!} \cdot \frac{(n_s)}{(n_s+j_s-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_s-l-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \cdot \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{j_i=j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \frac{(n_{is}-s-k)!}{(n_{is}+j_s-n-k-j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

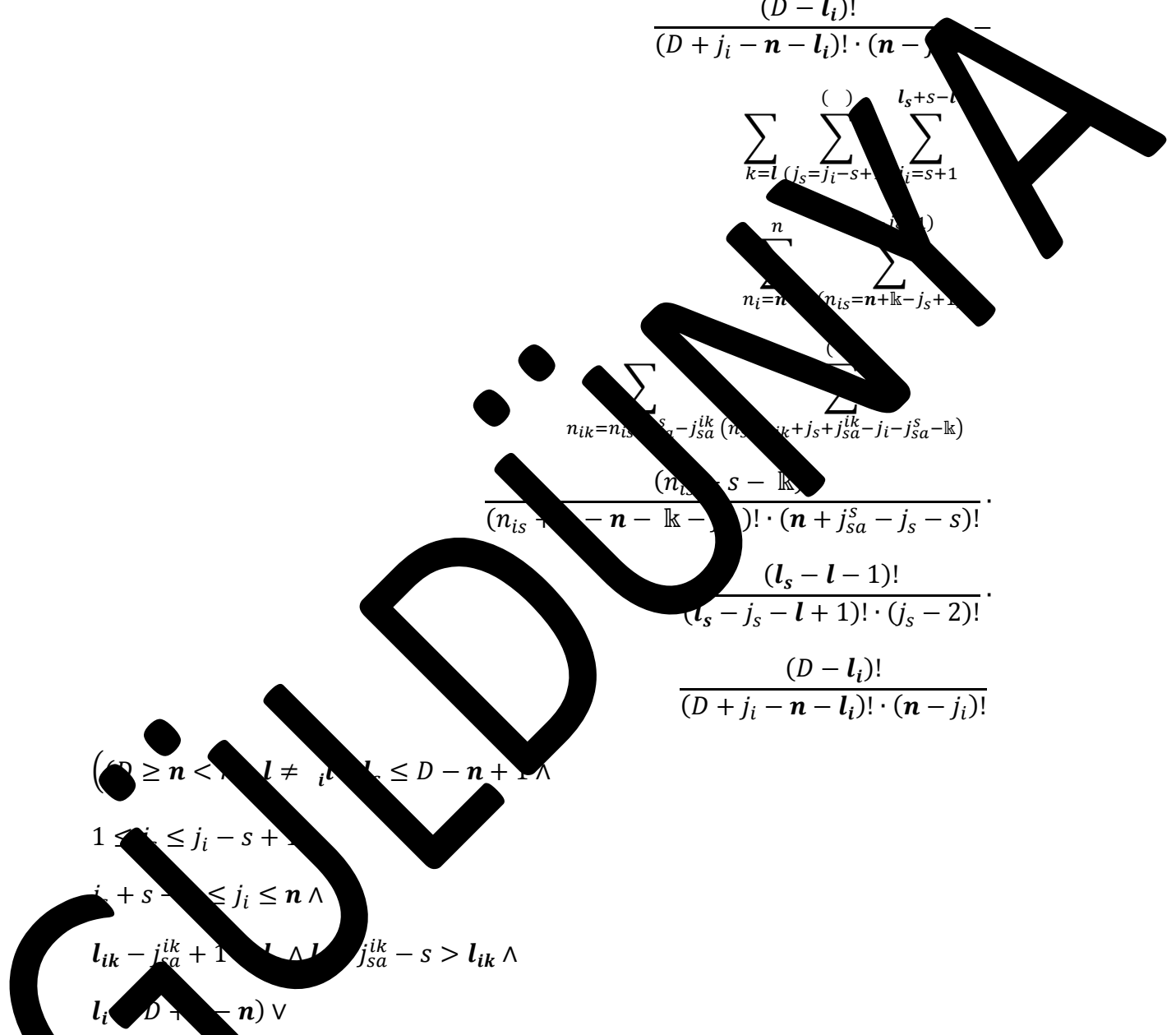
$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}^{l_s+s-l} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{i=s+1}^{l_s+s-l} \sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{()} \sum_{(n_{ik}=n_{is}-j_{sa}^{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{()} \frac{(n_{is} + s - k)!}{(n_{is} + s - n - k - j_s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n) \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge 1 \leq i \leq j_i - s + 1 \wedge i + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge l_i \leq D + j_{sa}^{ik} - n) \vee (D \geq n < n) \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge 1 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$



$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_i+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-k)}^{(n_{ik}+j_s+j_{sa}^{ik})}$$

$$\frac{(n_{is} - s - k)! \cdot (n - n_{is} - j_s - s)!}{(n_{is} + j_s - n - k)! \cdot (n - n_{is} - j_s - s)!}$$

$$\frac{(l_s - l + 1)! \cdot (j_s - 2)!}{(l_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i) \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOS} \sum_{k=l}^{s+1} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{n_i-n} \sum_{(n_i=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{lk})}^{()} \\
 & \frac{(n_{is} - s - lk)!}{(n_{is} + j_s - n - lk - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l \neq k =$$

$$j_{sa}^s - j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\}$$

$$s \leq j_{sa}^s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
& \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=1}^{(l_s-l+1)} \sum_{i=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
& \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{(l_s-l+1)}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{is}-s-1)! \cdot (n+j_{sa}-s)!}{(n_{is}+j_s-n-k-j_{sa}^s)! \cdot (n+j_{sa}-s)!}$$

$$\frac{(l_s-l-1)!}{(j_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D+j_s-n-l_i)! \cdot (n-j_i)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1) \vee$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}$$

$$(D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1))$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)}^{(l_s - l + 1)} \sum_{j_i = j_s + s - 1} \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik})}^{(n_{ik} + j_s + j_{sa}^{ik} - k)} \frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k)! \cdot (n_{is} + j_s - j_s - s)!} \cdot \frac{(l_s - k)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(j_s - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^s + j_{sa}^{ik} = l_s \wedge l_{is} + j_{sa}^{ik} - j_{sa}^s = l_i \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 1 \wedge$$

$$j_{sa}^s \leq j_{sa}^i \wedge$$

$$s: \{i, j\} \wedge$$

$$s \geq 2 \wedge s = \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i - s + 1)} \sum_{(j_s = 2)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = l_i + n - D} \sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{(l_{sa} - j_{sa} + 2)} \sum_{(j_s=2)}^{l_i - l_s - s + 1} \sum_{i=l_{sa} + s - l - j_{sa} + 2}^{n_i - j_s + 1} \sum_{n_{is}=n - j_s + 1}^{n_{is} + j_s - j_i} \sum_{n_s=n - j_i + 1}^{n_s}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^{()}$$

GÜLDENWA

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_s-n-\mathbb{k}-j_{sa}^s)! \cdot (n+j_s-j_s-s)!}$$

$$\frac{(l_s-l-j_s+1)! \cdot (l_s-l-2)!}{(l_s-j_s-1)! \cdot (l_s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_i = l_{ik} \wedge l_{sa} - s > 0 \wedge$$

$$D + s - n < l_i \leq D + l_s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s \in \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l+1} \sum_{j_i=j_s+s-1}^{n-j_s+1}$$

$$\sum_{n_i=n+l-k}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{-j_i+1}^{n_{is}-j_s+1}$$

$$\frac{(n_s - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - j_s + 1)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^{n-j_s+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

GÜLDÜNYA

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)$$

$$\frac{(n_{is}-s-k)!}{(n_{is}+j_s-n-k-j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-s)!}$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i + j_{sa} - s \wedge l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = \dots \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{j_s+s-1} \sum_{n_i=n}^n (n_{is}=n+k-j_s+1) \cdot \sum_{n_{ik}=n_{is}-j_{sa}-j_{sa}^{ik}}^{(n_{is}=n+k-j_s+1)} (n_{is}=n+k-j_s+1) \cdot \frac{(n_{is}=n+k-j_s+1)!}{(n_{is}+n-k-j_s+1)! \cdot (n+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l \leq D - n + 1 \wedge 1 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge D > n < n \wedge l = k = 0 \wedge j_{sa}^{s-1} - j_{sa}^{s-1} - 1 \wedge s: \{j_{sa}^s, j_{sa}^i\} \wedge s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{j_i=l_{sa+n+s-D-j_{sa}}}^{n} \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
&\frac{(l_s - j_s - l + 1)!}{(j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_{ik-l-j_{sa}^{ik}+2})} \sum_{(j_s=2)}^{l_{sa+s-l-j_{sa}+1}} \sum_{j_i=l_{ik+s-l-j_{sa}^{ik}+2}}^{n} \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik+s-l-j_{sa}^{lk}+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_{is}+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{ik}+j_s+j_{sa}^{lk}-j_i-k)} \frac{(n_{is}-s-k)!}{(n_{is}+j_s-n-k)! \cdot (n-k-j_s-s)!} \cdot \frac{(l_s-l)!}{(l_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq n - 1$
 $1 \leq j_s \leq j_i - s + 1 \wedge$
 $j_s + s - 1 \leq j_i \leq n \wedge$
 $l_i - j_{sa}^k + j_{sa}^k = l_s \wedge l_s + j_{sa}^{ik} - j_{sa} > l_i \wedge l_i + j_{sa} - s = l_{sa} \wedge$
 $D + s - n < l_i \leq D + l_s + j_{sa} - n - 1 \wedge$
 $D \geq n < n \wedge l = k = n \wedge$
 $j_{sa}^s \leq j_{sa}^i \wedge$
 $s: \{1, 2, \dots\} \wedge$
 $s \geq 2 \wedge s \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(n_i-j_s+1)} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(n - l_i)!}{(n - j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - j_{sa}^{ik} + 2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{j_{sa}+1} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1} \sum_{j_i=j_s+s-1}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_s-n-\mathbb{k}-j_{sa}^s)! \cdot (n+j_s^s-j_s-s)!}$$

$$\frac{(l_s-l-j_s+1)! \cdot (j_s-2)!}{(l_s-j_s-j_s+1)! \cdot (j_s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-j_s-l_i)! \cdot (n-j_s+1)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + l_i - j_{sa} > l_{ik} - l_i + j_{sa} \wedge l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n \wedge l = 0 \wedge$

$j_s^s \leq j_{sa}^l - 1 \wedge$

$s: \{j_s^s, j_{sa}^l\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=n}^n \sum_{(n_i=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 1)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik}-l-j_s-2)} \sum_{n_{sa}+n_{sa}+1}^{n_{sa}+n_{sa}+1} \sum_{j_s+s-1}^{j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik} \mid n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$l_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s}^{s, T} = \sum_{(j_s=2)}^{(s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa+s-l-j_{sa}+1}} \sum_{j_i=l_s+s-l+1}^{(n_i-j_s+1)} \sum_{n_i=n}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \\
 & \frac{(l_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (n - j_s - s + 1)!} \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n} \sum_{n_i=n+k}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})} \\
 & \frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s \cdot \{j_{sa}^s, j_{sa}^i\}$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n} \sum_{(n_i=n)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}+s-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s-1)} \sum_{n_i=n-j_s+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}+s-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s-1)} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_s}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n_{is}+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{(n_{is}+j_s-j_i)}$$

$$\frac{(n_{is}-1)! \cdot (n_{is}-j_s+1)!}{(j_s-2)! \cdot (n_{is}-j_s+1)!}$$

$$\frac{(n_s-1)!}{(n_{is}-j_s+1)! \cdot (n_{is}-j_i)!}$$

$$\frac{(n_s-1)!}{(n_{is}+j_i-1)! \cdot (n-j_i)!}$$

$$\frac{(l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(l_i-l_s-s+1)!}{(l_i+l_j-j_i-l_s)! \cdot (j_i-j_s-s+1)!}$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{(l_s-l-1)}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{is}-s-k)!}{(n_{is}+j_s-n-k-j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_i - i + 1} \sum_{j_i=s}^{l_i - i + 1} \frac{\binom{n}{j_i - 1} \binom{n - j_i + 1}{n - j_i + 1}}{(j_i - 2)! \cdot (n - n_s - j_i + 1)!} \cdot \frac{(n_s - j_i - n - 1)! \cdot (n - j_i)!}{(l_i - l_s - s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$\sum_{k=1}^{l_i} \sum_{(j_s=1)}^{l_i - i + 1} \sum_{j_i=s}^{l_i - i + 1} \frac{\binom{n}{n_i + k} \binom{n - n_i - k}{n_{ik} = n_i - j_s - j_{sa}^{ik}} \binom{n_s}{n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{ik} - k}}{(n_i + j_s - s - k - j_{sa}^s)! \cdot (n - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(j_i - n_s - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(j_s - j_i - l + 1)} \sum_{j_i = l_i + n - k}^{(l_i + s - j_i - k + 1)} \sum_{n_i = n + \mathbb{k}}^n \sum_{j_s = j_s + 1}^{(n_i - j_s + 1)} \sum_{s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k}}^{(n_i - j_s + 1)} \frac{(n_i - j_s - \mathbb{k})!}{(n_i - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq 2 \wedge n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_s + 1 \leq j_i -$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^s = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$j_{sa}^s \geq n - \mathbb{k} \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\begin{aligned}
f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{ik}+n-D-j_{s_a}^{ik}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
&\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+k}^{n_{is}+j_s-j_i-k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
&\frac{(l_i - l_s - s + 1)!}{(l_i + l_j - l_s - s)! \cdot (j_i - j_s - s + 1)!} \\
&\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_{ik}-l-j_{s_a}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
&\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+k}^{n_{is}+j_s-j_i-k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}
\end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{j_s = l_i + n - D - s + 1} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = n + j_s + 1}^{(n + j_s + 1)} \frac{\binom{n_i - l_k}{n_i + j_s - n - l_k - j_{sa}^s} \binom{n_i + j_s + 1 - j_i - j_{sa}^s - l_k}{n_i - l_k}}{\binom{n_i + j_s - n - l_k - j_{sa}^s}{n_i + j_s - n - l_k - j_{sa}^s} \binom{n + j_{sa}^s - j_s - s}{n + j_{sa}^s - j_s - s}} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$
 $D + l_i + s - n - l_i - 1 \leq l \leq D - n - 1$
 $2 \leq j_s \leq j_i - s$
 $j_s + 1 \leq j_i \leq n \wedge$
 $n - j_{sa}^{ik} - 1 = l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$
 $D \geq n < n \wedge l_s > D - n + 1 \wedge$
 $j_{sa}^s = j_{sa}^l - 1 \wedge$
 $s = \{j_{sa}^s, l_k\} \wedge$
 $s = 2 \wedge s = s + l_k \wedge$
 $l_{k_z}: z = 1 \Rightarrow$

$$\begin{aligned}
 f_z^{S_{j_s, j_i}^{DOST}} = & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(\quad)} \\
 & \frac{(n_{is} - s - l_k)!}{(n_{is} + j_s - n - l_k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{S_{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{l_s+n}^{l_s+s-l} \sum_{l_s+l-1}^{l_s+l-1} \sum_{n_i=n+l}^{n_i=n+l} \sum_{n_s=n-j_i+1}^{n_s=n-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{j_i=l_s+s-l+1}^{n_i=n+l} \sum_{(n_{is}=n+l-k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{n_i - j_i - s + 1} \sum_{l_{ik} = l_i + n + s - D - j_{sa}^{ik}}^{n_i - j_i - s + 1 - k} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{\mathbb{k} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{(n_i - j_s + 1)} \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n-D-j_{sa}^{ik}+1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-1)} \sum_{n_s=n-j_i+1}^{n_{is}-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(j_i - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{l_s-l} \sum_{j_s=l_{ik}+n_{is}-j_{sa}^{ik}+1}^{j_s} \sum_{j_i=j_s+1}^n \sum_{n_i=n+l_k}^n \sum_{n_{is}=n_{is}-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{n_{is}=n_{is}-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{n_{is}=n_{is}-j_{sa}^{ik}}^{(n_i-j_s+1)} \frac{(n - s - l_k)!}{(n_{is} + j_{sa}^s - n - l_k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D > n < n \wedge l_s > l_s - n + 1 \wedge \\ & 2 \leq j_s \leq j_s + s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\ & ((D > n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \end{aligned}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{i_i}^{DOST} = \sum_{k=l}^{s+1} \sum_{j_s=l_s+n-D}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{l_i+s-l}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_s+n-D}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(j_s + l_i - l - l_s - s + 1)!}{(j_s + l_i - l - l_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{l=1}^{()} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{()} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \\
 & \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$((D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\begin{aligned}
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)}^{l_i - l + 1} \sum_{j_i = j_s + s - 1}^{l_i - l + 1} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{= n - j_i + 1}^{n_{is} + j_s -} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - j_i - n - 1)!}{(n_s - j_i - n - 1)!} \cdot \\
& \frac{(n_s - j_i - n - 1)!}{(n_s - j_i - n - 1)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s - l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
& \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)}^{(l_s - l + 1)} \sum_{j_i = j_s + s - 1}^{(l_s - l + 1)} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{()} \\
& \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^s = j_i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_s\} \wedge$$

$$s = j_s + k = s + k \wedge$$

$$k_z: z = 1 =$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_i=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{\substack{j_s = l_i + \dots + n - s + 1 \\ j_i = j_s + s - 1}} \sum_{n_i = n + \mathbb{k}}^n \sum_{n_{is} = n + \mathbb{k} - j_s + 1}^{(n_i - j_s + 1)} \sum_{\mathbb{k} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s - n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})} \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$l_i - l_s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_{sa}+s-l-j_{sa}}^{l_{sa}+s-l-j_{sa}} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j+1)} \sum_{n_s=n-j_i+1}^{n_{is}-j_i-k} \frac{(n_i - n_{is} - 1)!}{(n_i - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(n_i - j_s - 1)!} \cdot \frac{(j_i - n_s - 1)!}{(j_i - n_s - 1)!} \cdot \frac{(n_{is} + j_s - n_s - j_i)!}{(n_s - 1)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{l_i-l+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(n_s + s - j_{sa} + 1)} \sum_{j_i=l_i+n-k}^{(n_s + s - j_{sa} + 1)} \sum_{n_i=n+k}^n \sum_{j_s=j_s+1}^{(n_i - j_s + 1)} \sum_{j_{sa}=n_{is}+j_{sa}^i - j_{sa}^{ik}}^{(n_i - j_s + 1)} \sum_{j_{sa}=n_{ik}+j_{sa}^{ik} - j_i - j_{sa}^{ik}}^{(n_i - j_s + 1)} \frac{(n_i - j_s - k)!}{(n_{is} - k - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1$

$2 \leq j_s \leq j_s - s + 1 \wedge$

$j_s + s - 1 \leq j_i$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$D > n < n \wedge I = k \geq 0 \wedge$

$j_{sa}^s = j_{sa}^i - 1 \wedge$

$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$

$s = 2 \wedge s = s + k \wedge$

$k_z: z = 1 \Rightarrow$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} = & \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{j_i=j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{ik}+j_s+j_{sa}^{ik}-k)} \frac{(n_{is}-s-k)! \cdot (n_{is}+j_s-n-k)! \cdot (n_{is}+j_s-j_s-s)!}{(l_s-k-l+1)! \cdot (j_s-2)!} \frac{(l_i-l)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

- $D \geq n < n \wedge l_s > D - n + 1$
- $D + l_s + s - n - l_i + 1 \leq D - n + 1$
- $2 \leq j_s \leq j_i - s$
- $j_s + s \leq j_i \wedge n$
- $l_{ik} - j_{sa}^{ik} + 1 = l_{sa} + j_s - j_{sa}^{ik} \wedge l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$
- $D \geq n < n \wedge l = k \geq 1 \wedge$
- $j_{sa}^s = j_{sa}^i \wedge$
- $s: \{j_{sa}^i, j_{sa}^i\} \wedge$
- $s = 2 \wedge s = 1 + k \wedge$

$$f_z^{SDOST}_{j_s, j_i} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{j_i=l_i+n-D} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(j_s + l_i - l - l_s - s + 1)!}{(j_s + l_i - l - l_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=1}^{l_s - l - j_{sa} + 2} \sum_{i=l_i + n - D - s + 1}^{l_i + n - D - s + 1} \sum_{j_i=j_s + s - 1}^{j_i} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{(n_{is} - s - \mathbb{k})!} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)} \\
 & \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{(j_i=l_{sa}+n+s-j_{sa})}^{l_{sa}+s-l-j_{sa}+1} \sum_{(n_i=n+l_{ik}-j_s)}^{(n_i-j_s)} \sum_{(n_s=n+l_{ik}-j_s)}^{n_{is}+j_s-j_i-l} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i-l} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_s-n_s-1)!}{(n_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{(j_i=l_{ik}+s-l-j_{sa}^{ik}+2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{(n_i=n+l_{ik})}^n \sum_{(n_{is}=n+l_{ik}-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i-l_{ik}} \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}$$

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$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{k=l}^{(n_{is} - n_s - 1)} \sum_{j_i - s + 1}^{(n_{is} - n_s - 1 - k)} \sum_{j_s - l}^{(n_{is} - n_s - 1 - k - j_i - s + 1)} \sum_{n_i = n + k}^{(n_{is} - n_s - 1 - k - j_i - s + 1)} \sum_{n_{is} = n + k + j_s + 1}^{(n_{is} - n_s - 1 - k - j_i - s + 1)} \sum_{n_{ik} = n_{is} + j_{sa} - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{ik} - k)} \frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \geq D - l + 1 \wedge$$

$$2 \leq j_s \leq l_s - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - n - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l - s + 1)!}{(j_s + l - l - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i = n + 1}^n \sum_{(j_s + 1)} \sum_{(n + j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa} - l_{ik} - j_s + 1} \sum_{(n_{ik} + j_s + 1 - j_i - j_{sa}^{ik} - l_k)}$$

$$\frac{(n_{is} - l_k)!}{(n_{is} + j_s - n - l_k - j_{sa}^s) \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_i + s - n - l_i - 1 \leq l \leq D - n - 1$$

$$2 \leq j_s \leq j_i - 1$$

$$j_s + 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} - 1 = l_s \wedge l_{sa} \wedge j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s = \{j_{sa}^s, l_k\} \wedge$$

$$s = 2 \wedge s = s + l_k \wedge$$

$$l_{k_z}: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_{zS}^{DOST}_{j_s, j_i} &= \sum_{k=l}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \\
 &\quad \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\quad \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 &\quad \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\quad \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 &\quad \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (i - j_s - s + 1)!} \cdot \\
 &\quad \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 &\quad \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(l_{sa}+s-l-j_{sa}+1)} \\
 &\quad \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 &\quad \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{is}-s-l_k)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_{is}-s-l_k)} \\
 &\quad \frac{(n_{is} - s - l_k)!}{(n_{is} + j_s - n - l_k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 &\quad \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\quad \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$((D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{j_i=l_{sa}+n+s-D-j_{sa}} \sum_{l_s+s-l}^{l_s+s-l} \\ \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\ \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s-l+1}^{j_i-l+k} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l+k} \\
 & \frac{(n_{is}-1)!}{(j_s - 1)! \cdot (n_i - n_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}
 \end{aligned}$$

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$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - \dots)}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l_s \geq 0 \wedge$$

$$j_{sa}^s = j_s - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^s\} \wedge$$

$$s = j_{sa}^s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 =$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa} + n - D - j_{sa})} \sum_{(j_s = l_s + n - D)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{\Delta} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{\Delta-1} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

$$\sum_{n+l_{sa}+n-D-j_{sa}+1}^n \sum_{n+l_k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{\Delta} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{\Delta}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{()}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_s-n-\mathbb{k}-j_{sa}^s)! \cdot (n+j_s^s-j_s-s)!}$$

$$\frac{(l_s-l-j_s+1)!}{(l_s-j_s-j_s+1)! \cdot (l_s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-l_i)! \cdot (n-j_s+1)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_s}^{+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_{is}-1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{+j_s-j_i-\mathbb{k}}$$

$$\frac{(j_s-2)! \cdot (n_{is}-n_{is}-1)!}{(i-j_s-1)! \cdot (n_{is}-j_i)!}$$

$$\frac{(n_s-1)!}{(n+j_i-1)! \cdot (n-j_i)!}$$

$$\frac{(l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!}$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{(l_s-l-1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{is}-s-\mathbb{k})!} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_{is}-s-\mathbb{k})!}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_s-n-\mathbb{k}-j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{l=1}^{(j_i-s+1)} \sum_{j_i=s+1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l} \sum_{(j_s=2)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
 & \frac{(n_{is} - s - l_k)!}{(n_{is} + j_s - n - l_k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l \neq i \wedge l_i \leq D - n + 1 \wedge$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DO} = \sum_{k=l}^{(l_{ik}-j_{sa}^{ik}+2)} \sum_{j_s=2}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n} \sum_{n_i=n+k}^{n-j_s+1} \sum_{n_{is}=n+k-j_s+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=2}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n} \sum_{n_i=n+k}^{n-j_s+1} \sum_{n_{is}=n+k-j_s+1}^{n_{is}+j_s-j_i-k}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()}^{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)$$

$$\frac{(n_{is}-s-k)!}{(n_{is}+j_s-n-k-j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-s)!}$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1$

$D \geq n < n \wedge l = k \geq 0 \wedge$

$j_{sa}^s = j_{sa}^l - 1 \wedge$

$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$

$s = 2 \wedge s = s + 1 \wedge$

$k: z = 1 =$

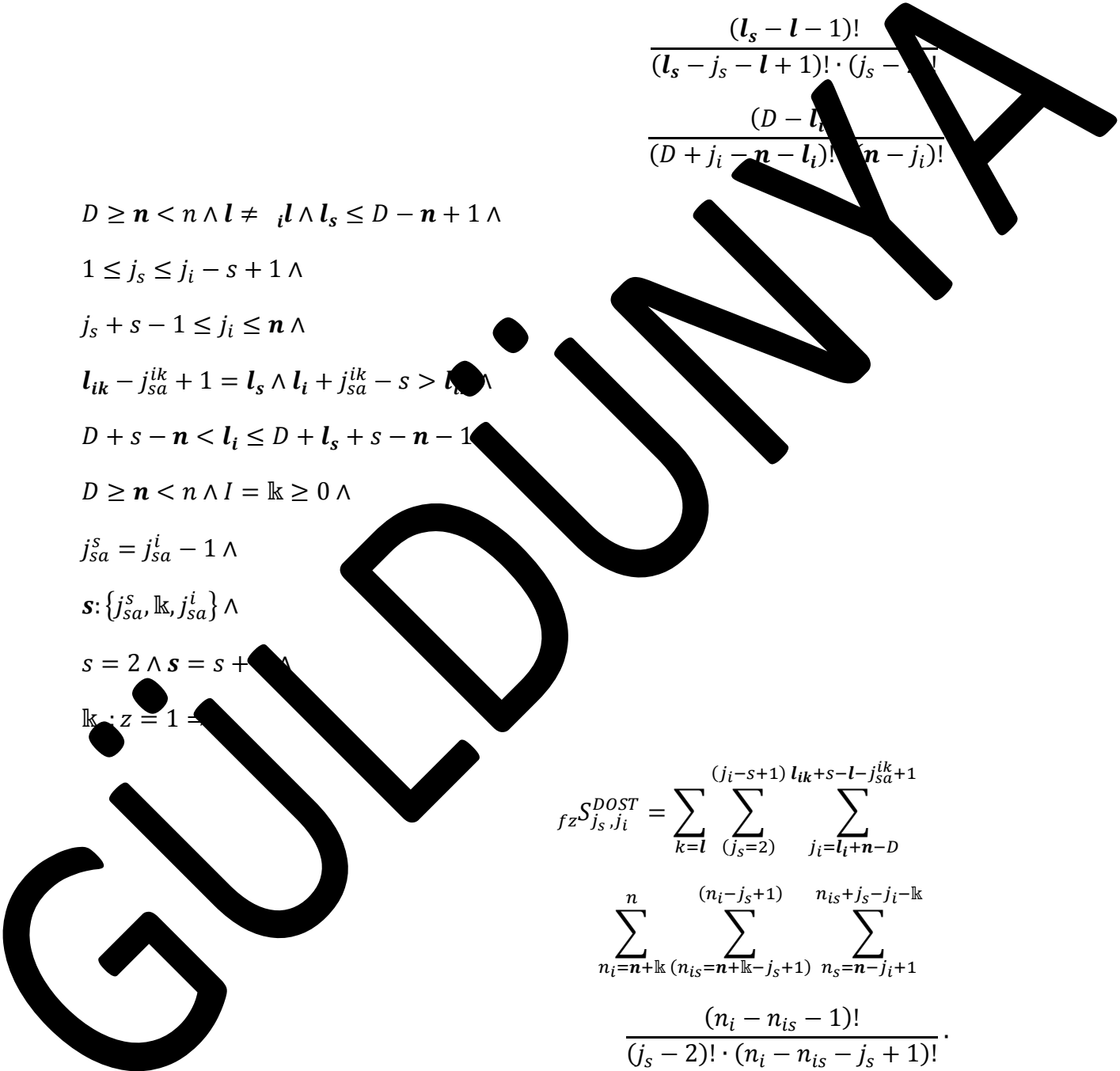
$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1) l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{(j_s=2)} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$



$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l - l + 1} \sum_{j_i=l_{ik}+s}^{j_{sa}^{ik}+2} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-1)}^{(j_s+1)} \sum_{n_s=n-j_i+1}^{j_i-l_k} \\
 & \frac{(n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - 1)!} \cdot \\
 & \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_i+n-D} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}
 \end{aligned}$$

GÜLDÜZ

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\begin{aligned}
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)}^{l_i - l + 1} \sum_{j_i = j_s + s - 1}^{n} \\
 & \sum_{n_i = n + lk}^{(n_i - j_s + 1)} \sum_{(n_{is} = n + lk - j_s)}^{n_i + j_s - j_i - lk} \sum_{n_i = j_i + 1}^{(n_i - n_{is} - 1)!} \\
 & \frac{(i - 2)! \cdot (n_i - n_{is} - j_s + 1)!}{(n_{is} - j_s - 1)! \cdot (n_{is} + j_s - j_i)!} \cdot \\
 & \frac{(n_i - j_s - 1)!}{(n_i + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(D - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)}^{(n_i - j_s + 1)} \sum_{j_i = j_s + s - 1}^{n} \\
 & \sum_{n_i = n + lk}^{(n_i - j_s + 1)} \sum_{(n_{is} = n + lk - j_s + 1)}^{(n_i - j_s + 1)} \\
 & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - lk)} \\
 & \frac{(n_{is} - s - lk)!}{(n_{is} + j_s - n - lk - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot
 \end{aligned}$$

GÜLDÜZYA

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_i - l + 1} \sum_{j_i = l_i + n - D}^{n} \sum_{n_i = n + \mathbb{k}}^{(n_i - j_s + 1)} \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{n_{is} + j_s - j_i - \mathbb{k}} \sum_{n_s = n - j_i + 1}^{(n_i - n_{is} - 1)!} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1} \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik})}^{(n_{ik} + j_s + j_{sa}^{ik} - l - k)} \frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - l_i - k)! \cdot (n - j_s - s)!} \cdot \frac{(l_s - l - k)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq n - 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n - 1 \wedge$$

$$l_i - j_{sa}^{ik} + 1 \geq l_s \wedge l_i - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + 1 - n - 1 \wedge$$

$$D \geq n < n \wedge l = k \geq 1 \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$s: \{1, \dots, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = n + k \wedge$$

$$k \geq 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i - s + 1)} \sum_{(j_s = 2)}^{l_s + s - l} \sum_{j_i = l_{ik} + n + s - D - j_{sa}^{ik}}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-l+1)} \sum_{j_i=l_s+s-l+1}^{l_{ik}+s-l-j_{s\bar{a}}^{ik}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

GÜLDÜNYA

$$\sum_{k=l}^{(\cdot)} \sum_{(j_s=j_i-s+1)}^{(\cdot)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{(\cdot)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik})}^{(\cdot)}$$

$$\frac{(n_{is}-s-l_k)!}{(n_{is}+j_s-n-l_k-j_{sa}^{ik})! \cdot (n+j_{sa}^{ik}-s)!}$$

$$\frac{(l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D-l_k)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - j_{sa}^{ik} = l_{ik} \wedge$$

$$D + s - n < l_i \leq l_s + s - n - l_k \wedge$$

$$D + s - n < n \wedge l_k \geq 0$$

$$j_{sa}^{is} = j_{sa}^{is} - 1 \wedge$$

$$s = \{j_{sa}^{is}, l_{ik} - j_{sa}^{ik}\} \wedge$$

$$s = 2 \wedge s = j_s - l_k \wedge$$

$$l_k = 1$$

$$f_z^{DOST}_{j_s, j_i} = \sum_{k=l}^{(\cdot)} \sum_{(j_s=2)}^{(\cdot)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{l+1} \sum_{j_s=l_{ik}+n-D-j_s^{ik}+1}^{j_s^{ik}+1} \sum_{j_i=j_s+s-1}^{j_s^{ik}+1}$$

$$\sum_{n_i=n+l_k-j_s+1}^n \sum_{n_{is}=n-j_i+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_{ik}+n-D-j_s^{ik}+1}^{j_s^{ik}+1} \sum_{j_i=j_s+s-1}^{j_s^{ik}+1}$$

GÜLDENWA

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_s-n-\mathbb{k}-j_{sa}^s)! \cdot (n+j_s-j_s-s)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-1)! \cdot (l-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = i \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \vee s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{k=l}^{l_s-l} \sum_{n_{ik}+n_{is}+j_{sa}^k = j_s+s-1} \sum_{n_i=n+l}^n \sum_{n_{is}=n+l-k-j_s+1}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^k-j_{sa}^{ik} \text{ (} n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^k-k \text{)}}^{()}$$

$$\frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D > n < n) \wedge l_s \leq D - n + 1 \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_i + s - j_s \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge \\ & l_i \leq D + s - n) \vee \\ & (D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \end{aligned}$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \vee$$

$$D \geq n < n \wedge l \neq l \wedge l_s \geq l \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = l + k \wedge$$

$$k = l \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{i_s}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{l_s} \sum_{m=2}^{l_s+l+1} \sum_{j_i=l_s+s-l+1}^{l_s+l+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \sum_{n_s=n+l_k-j_s+1}^{(n_i-j_s+1)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_s+s-l}$$

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$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_{is}-s-l_k)!}{(n_{is}+j_s-n-l_k-j_{sa}^s)! \cdot (n+j_s-j_s-s)!}$$

$$\frac{(l_s-l-j_s-1)! \cdot (l_s-2)!}{(l_s-j_s-1)! \cdot (l_s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-l_i)! \cdot (n-j_i)!}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z = \frac{\sum_{k=l}^{l+1} \sum_{j_s=2}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n-j_s+1} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}-j_s-j_i-k}} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}} \frac{(n_{is}-s-k)!}{(n_{is}+j_s-n-k-j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-s)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{j_i=1}^{(j_i-s+1)} \sum_{(j_s=2)}^{s-l} \sum_{j_i=1}^{D} \frac{\sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}}{(j_s-2)! \cdot (n_i - n_{is} - 1)! \cdot (n_s - n_s - 1)! \cdot (j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)! \cdot (n_s - 1)! \cdot (n_s + j_i - n - 1)! \cdot (n - j_i)! \cdot (l_s - l - 1)! \cdot (l_s - j_s - l + 1)! \cdot (j_s - 2)! \cdot (l_i - l_s - s + 1)! \cdot (j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)! \cdot (D - l_i)! \cdot (D + j_i - n - l_i)! \cdot (n - j_i)! + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}} (n_i - n_{is} - 1)! \cdot (j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{k=l_i}^{l_s+s-1} \sum_{n_i=n+k-j_s+1}^{n_i=n+k-j_s+1} \sum_{n_{is}=n+k-j_s+1}^{(n_i - j_s + 1)}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n + 1 \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n + 1 \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = l \wedge k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)}^{l+1} \sum_{j_i = j_s + s - 1}^{n - j_s + k} \frac{(n_i - j_s + k)! \cdot (n_{is} + j_s - j_i - k)!}{(n_i - n + k)! \cdot (n_{is} - n + k - j_s + s - 1)! \cdot (j_i + 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)}^{l+1} \sum_{j_i = j_s + s - 1}^{n - j_s + k} \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_{z=1}^{OST} = \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=2}^{(l_s-l+1)} \sum_{j_i=l_i+n-D}^{(l_s-l+1)}$$

$$\sum_{n_i=0}^n \sum_{n_{is}=n+k-j_s+1}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(\)}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_s-n-\mathbb{k}-j_{sa}^s)! \cdot (n+j_s-j_s-s)!}$$

$$\frac{(l_s-l-j_s-1)! \cdot (j_s-2)!}{(l_s-j_s-1)! \cdot (j_s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-l_i)! \cdot (n-j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$

$1 \leq j_s \leq j_i - s + 1$

$j_s + s - 1 \leq j_i \leq n$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_i = l_{ik} \wedge l_{sa} - s > 0$

$D + s - n < l_i \leq D + l_s - n - 1$

$D \geq n < n \wedge l = \mathbb{k} \geq 0$

$j_{sa}^s = j_{sa}^i - 1$

$s = (j_{sa}^s, \mathbb{k}, j_{sa}^i)$

$s = 2 \wedge s = s + \mathbb{k}$

$\mathbb{k}_z: z = \dots \Rightarrow$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa} - l - j_{sa} + 1)} \sum_{(j_s=2)}^{l_i - l} \sum_{j_i=l_{sa}+s-l-j_s}^{l_i - l} \frac{(n_i - j_s + k)! \cdot (n_{is} + j_s - j_i - k)!}{(n_i + k)! \cdot (n_{is} + k - j_s + 1)!} \cdot \frac{(n_s - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - 1)!}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} \wedge l_i + j_s - s > l_s \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1$

$D \geq n < n \wedge l = k \geq 0 \wedge$

$j_{sa}^s = j_{sa}^l - 1 \wedge$

$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$

$s = 2 \wedge s = s + 1 \wedge$

$k: z = 1 =$

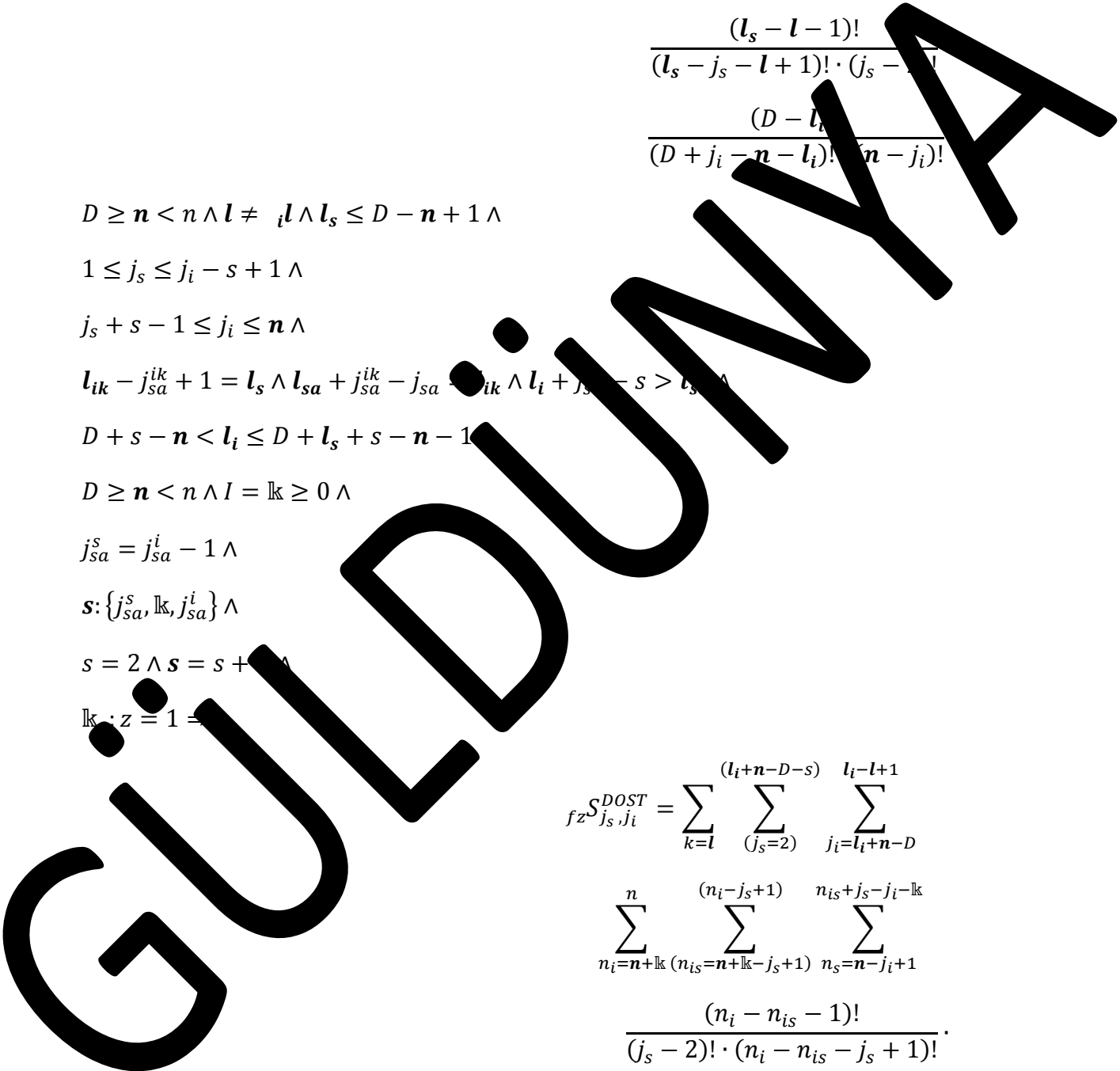
$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$



$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l_k} \\
 & \frac{(n_{is}-1)!}{(j_s - 1)! \cdot (n_i - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}
 \end{aligned}$$

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$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - j_{sa} = l_{ik} - j_{sa}^{ik} + 1$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n}^n \sum_{j_s=n+1}^{(j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+1} \sum_{j_s=n_{ik}+j_s}^{(j_s+1)} \sum_{(j_i-j_s-l_{sa}-k)}$$

$$\frac{(n_{is} + j_s - n - k - j_{sa})!}{(n_{is} + j_s - n - k - j_{sa})! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - s + 1 \wedge$$

$$1 \leq j_i \leq j_i - s + 1 \wedge$$

$$j_s - s - 1 \leq j_s \leq n \wedge$$

$$l_{ik} + j_{sa}^{ik} + 1 = l_s \wedge l_{ik} + j_{sa}^{ik} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$j_s + s - 1 \leq l_i \leq D + s - n - 1 \wedge$$

$$D \geq n < n \wedge l_s \leq D - s + 1 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s \in \{j_{sa}^s, k\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_{j_s, j_i}^{S_{DOST}} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_{sa}^{lk}+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik+s-l-j_{sa}^{lk}+1}} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{n_{is}+j_s-j_i-l_k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - j_s - l + 1)!}{(j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_{ik}-l-j_{sa}^{lk}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{ik}+s-l-j_{sa}^{lk}+2}^{l_{sa}+s-l-j_{sa}+1} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_{is}+k-j_s+1)}^{(n_{is}-s-k)} \frac{(n_{is}-s-k)!}{(n_{is}+j_s-n-k)! \cdot (n-k-j_s-s)!} \cdot \frac{(l_s-k)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq n - 1$
 $1 \leq j_s \leq j_i - s + 1 \wedge$
 $j_s + s - 1 \leq j_i \leq n \wedge$
 $l_i - j_{sa}^{ik} + j_{sa}^{ik} = l_s \wedge l_s + j_{sa}^{ik} - j_{sa}^{ik} > l_i \wedge l_i + j_{sa} - s = l_{sa} \wedge$
 $D + s - n < l_i \leq D + l_s + j_{sa} - n - 1 \wedge$
 $D \geq l_i < n \wedge l = k \geq 1 \wedge$
 $j_{sa}^s = j_{sa}^i \wedge$
 $s: \{j_{sa}^i, j_{sa}^i\} \wedge$
 $s = 2 \wedge s = j_{sa} + k \wedge$
 $k \geq 1 \Rightarrow$

$$fz_{j_s j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l_s-l}^{l_s-l+1} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s)}^{(n_{is}-s-k)} \frac{(n_{is}-s-k)!}{(n_{is}+j_s-n-k-j_{sa}+1) \cdot (n+j_{sa}-s)!} \cdot \frac{(l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(D-j_s+1)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s + j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} - j_{sa} + j_{sa} - s = l_{sa} \wedge$$

$$D - s - n < l \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = 0 \wedge$$

$$l_s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^{ik}, j_{sa}^{ik}\}$$

$$s - 2 \wedge s = s + k \wedge$$

$$k_z: z = 1$$

$$f_z^{SDOST}_{j_s, j_i} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(j_s + l_i - n - l_s - s + 1)!}{(j_s + l_i - n - l_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{i=1}^{l_s} \sum_{j_s=n-D-j_{sa}+1}^{n-D-j_{sa}+2} \sum_{j_i=j_s+s-1}^{n-D-j_{sa}+2} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{is}-s-\mathbb{k})} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)} \\
 & \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + 1 \wedge$$

$$k: z = 1 \wedge$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-k}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}-n_s-1)!}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = 2)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = l_{sa} - l + 1}^{n - l + 1} \\
 & \sum_{n_i = n + lk}^n \sum_{(n_{is} = n + lk + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n - j_i - lk} \\
 & \frac{(n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{()} \sum_{(j_s = j_i - s + 1)}^{l_s + s - l} \sum_{j_i = l_{sa} + n + s - D - j_{sa}} \\
 & \sum_{n_i = n + lk}^n \sum_{(n_{is} = n + lk - j_s + 1)}^{(n_i - j_s + 1)} \\
 & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - lk)}
 \end{aligned}$$

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$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D > n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$s \in \{j_{sa}^i, j_{sa}^s\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} = & \sum_{k=l} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s - l - 1)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1} \sum_{n_i = n + k}^n \sum_{(n_{is} + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik}}^{(n_{ik} + j_s + j_{sa}^{ik} - k)} \frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k)! \cdot (n_{is} - j_s - s)!} \frac{(l_s - k)!}{(l_s - k - l + 1)! \cdot (j_s - 2)!} \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l \neq i) \wedge l \leq D - n + 1) \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge \\ & 1 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\ & D + s - n < l_i \leq D + l_s + s - n - 1) \vee \\ & (D \geq n < n \wedge l \neq i) \wedge l_s \leq D - n + 1 \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge \\ & 1 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\ & D + s - n < l_i \leq D + l_s + s - n - 1) \vee \\ & (D \geq n < n \wedge l \neq i) \wedge l_s \leq D - n + 1 \wedge \end{aligned}$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=2)}^{l_{sa}+s-1} \sum_{j_{sa}=n+s-D-j_{sa}}^{l_{sa}+s-1} \sum_{n_i=0}^n \sum_{(n_{is}=n+k-j_s+1)}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_{is} - s - l_k)!}{(n_{is} + j_s - n - l_k - j_{sa}^s)! \cdot (n + j_s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l_i \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz^S_{j_s, l} = \sum_{k=0}^l \sum_{j_s=1}^{()} \sum_{j_i=s}^{l_i - i^{l+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$\sum_{k=0}^l \sum_{j_s=1}^{()} \sum_{j_i=s}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}$$

$$\frac{(n_i + j_s - s - \mathbb{k} - j_{sa}^s)!}{(n_i + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz^{QST} = \sum_{k=l}^{(j_i - s + 1)} \sum_{j_i = l_i + n - D - j_{sa}^{ik} + 1}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_i-l+1} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{n_{is}+j_s-j_i-l_k} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n - l_k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_i+n-D}^{n_{is}+j_s-j_i-l_k} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
 & \frac{(n_{is} - s - l_k)!}{(n_{is} + j_s - n - l_k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{SDOST} = \sum_{k=l}^{(l_i+n-s)} \sum_{(l_{ik}+n-j_s+1)}^{l_i-l+1} \sum_{(l_i+n-D)}^{l_i-l+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=0}^{l_{ik} - l - j_{sa}} \sum_{j_s = l_i + k - s + 1}^{n - j_s + 1} \sum_{j_i = j_s + s - 1}^{n - j_s + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{ik} - \mathbb{k}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{ik} - \mathbb{k})} \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

- $D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $l_s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s \wedge$
- $j_s + s \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$$D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+n-D}^{(l_{ik}-l-j_{sa}^{ik}+2)}$$

$$\sum_{n_i=n+k}^n \sum_{n_s=n-j_i+1}^{(n_i-j_s+1)} \frac{(n_i - j_s + 1)!}{(j_s - 2)! (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - j_s - 1)! (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(l_{ik}-l-j_{sa}^{ik}+2)}$$

$$\sum_{n_i=n+k}^n \sum_{n_s=n+k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

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$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i - l_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s}^D = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n_i+n+\mathbb{k}} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{j_i=l_s+s-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-}$$

$$\frac{(n_i - n_{is} - \dots)}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i - \dots + 1)!} \cdot$$

$$\frac{(n_{is} - n_s - \dots - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \dots)}$$

$$\frac{(n_s - j_i - n - \dots - l - j_i)!}{(n_s - j_i - n - \dots - l - 1)!}$$

$$\frac{(n_s - j_i - n - \dots - l - 1)!}{(n_s - j_i - n - \dots - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - \dots - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

$$\frac{(n_{is} - s - l_k)!}{(n_{is} + j_s - n - l_k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{i_i}^{DOST} = \sum_{k=l}^{n+n-D-j_i} \sum_{(j_s=l_s, \dots, j_s=D)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n} \sum_{n_i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n - l_k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - l_k - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
 & \frac{(n_{is} - s - l_k)!}{(n_{is} + j_s - n - l_k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{j_s=l_s+n-D}^{l_s+s-l} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_s+n-D}^{l_i-l+1} \sum_{j_i=s-l+1}^{l_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l_k}$$

$$\frac{(n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_k)!}$$

$$\frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

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$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\ & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \\ & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\ & D \geq n < n \wedge l_i = 0 > 0 \wedge \\ & j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge \\ & s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^{ik}\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge \\ & s > n - l_i = s + \mathbb{k} \wedge \\ & \mathbb{k}_z: z = 1 = \dots \end{aligned}$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_s-n-\mathbb{k}-j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!}$$

$$\frac{(l_s-l-\mathbb{k})!}{(l_s-j_s-\mathbb{k}-1)! \cdot (n-j_s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-\mathbb{k}-l_i)! \cdot (n-j_s-\mathbb{k})!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 < j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_{is}-\mathbb{k}+1)}^{(n_i-j_s+1)} \sum_{(n_s=n_s-j_i+\mathbb{k})}^{+j_s-j_i-\mathbb{k}}$$

$$\frac{(j_s-2)! \cdot (n_{is}-n_{is}-j_s+1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s)! \cdot (j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{is}-s-\mathbb{k})!} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_{is}-s-\mathbb{k})!} \cdot \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_s-n-\mathbb{k}-j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz^{j_s} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{l_i-l+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(j_s + l_i - n - l_s - s + 1)!}{(j_s + l_i - n - l_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=0}^{()} \sum_{s=j_i-s+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^{()} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()} \\
 & \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{sa}+D-j_{sa}+1)}^{l_i-l+1} \dots$$

$$\sum_{n_i=n+l}^n \sum_{(n_{is}=n+l-j_s+1)}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+l}^n \sum_{(n_{is}=n+l-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

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$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!}$$

$$\sum_{n_{is}=n+l_i}^{(l_{sa}-l_i+2)} \sum_{n_{is}=n+l_i}^{(n_{is}+j_s-1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}-\mathbb{k})}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_i > D - n + 1 \wedge$$

$$D - n_s + j_s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_{sa}^s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i-l+1)} \sum_{j_i=l_i+n}^{(l_i-l+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_i-l+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_i-j_i-\mathbb{k})}$$

$$\frac{(j_s-2)! \cdot (n_{is}-j_s+1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s)!} \cdot \frac{(n_s-1)!}{(n+j_i-1)! \cdot (n-j_i)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(l_i-l-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!}$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_s-n-\mathbb{k}-j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!}$$

$$\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DG} = \sum_{l=1}^{j_s-1} \sum_{j_s=l_{ik}+n-D}^{j_s-1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n - l_k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
 & \frac{(n_{is} - s - l_k)!}{(n_{is} + j_s - n - l_k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{j_s=l_{ik}+1}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{j_{sa}^i=j_{sa}^{ik}+1}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{j_{sa}^s=D-j_{sa}}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_s - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{\lfloor \frac{l_s - l - j_{sa}^s}{2} \rfloor} \sum_{j_i = j_s + s - 1}^{n - l_{sa} + n - j_{sa} + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{k = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} (n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k}) \cdot \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$l_s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

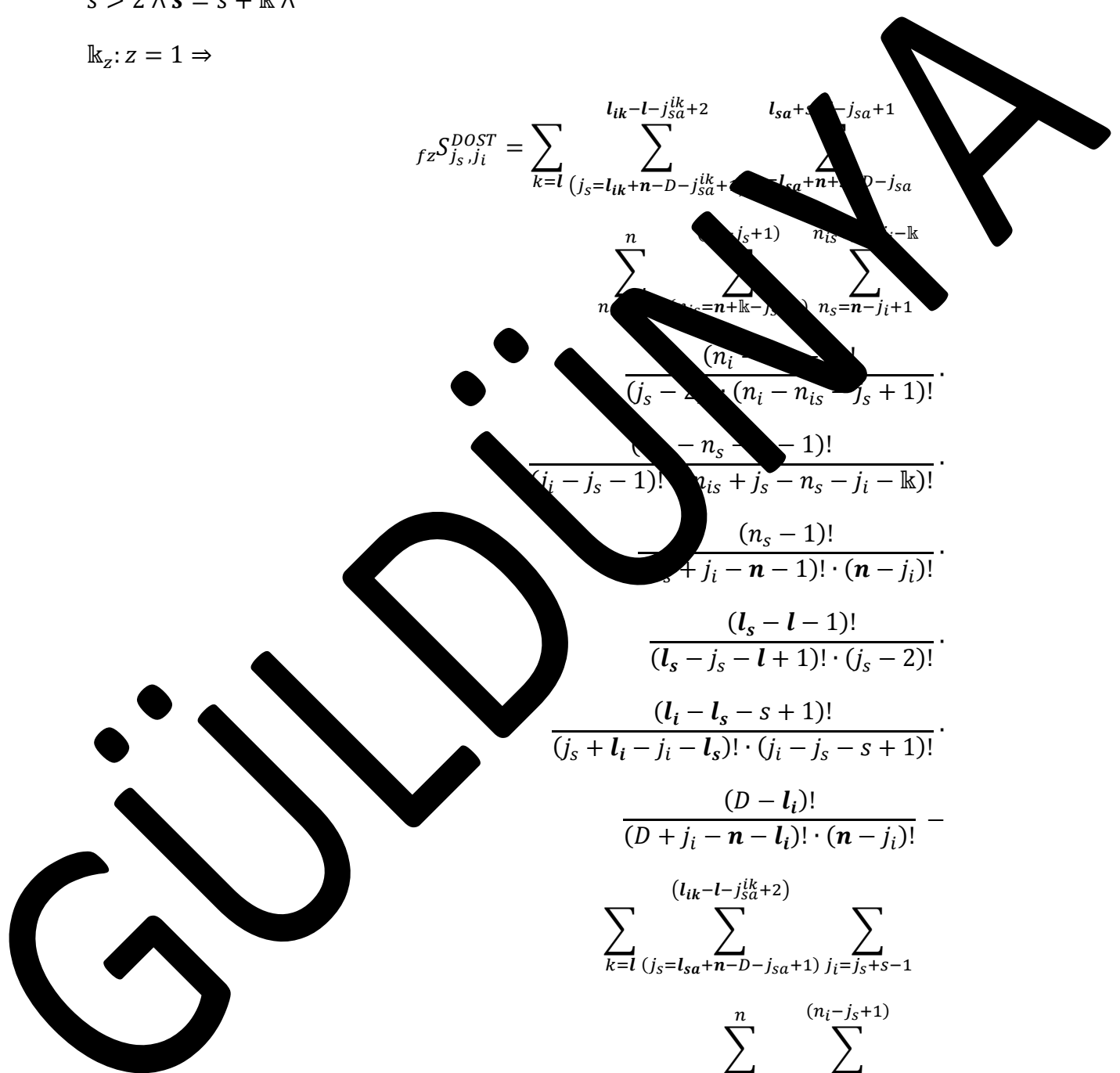
$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S^{DOST}} = \sum_{k=l}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1) \dots (l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+n-D-j_{sa}+1} \sum_{(j_s=j_s+1) \dots (n)}^{n} \sum_{(n_{is}=n+\mathbb{k}-j_s) \dots (n_s=n-j_i+1)}^{n_{is}} \frac{\binom{n_i}{j_s-2} \binom{n_i-n_{is}}{j_s+1}}{(j_s-2)! \binom{n_i-n_{is}}{j_s+1}!} \cdot \frac{(n_s-1)!}{(j_s+n_{is}+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(j_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_s=j_s+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$



$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$((D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$

$D \geq n < n \wedge l_s > 0 \wedge$

$j_{sa}^{ik} = j_s - 1 \wedge j_{sa}^s \leq j_s - 1 \wedge$

$S: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee S: \{j_{sa}^i, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s > j_{sa}^{ik} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 =$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{j_i=l_{sa}+n+s-D-j_{sa}} \sum_{l_s=s-l}^{l_s+s-l} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_s-n-\mathbb{k}-j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!}$$

$$\frac{(l_s-l-j_{sa}^s-j_s-1)! \cdot (l_s-l-2)!}{(l_s-j_s-j_{sa}^s-1)! \cdot (l_s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-l_i)! \cdot (n-j_{sa}^s)!}$$

$((D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_i > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D > n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$

$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s > 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\begin{aligned}
 f_{zS}^{DOST}_{j_s, j_i} = & \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s - l - 1)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = n + k}^n \sum_{(n_{is} + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{ik} + j_s + j_{sa}^{ik} - k)}^{(n_{ik} + j_s + j_{sa}^{ik} - k)} \frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k)! \cdot (n - n_{is} - j_s - s)!} \frac{(l_s - k)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(l_i - k)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l_s > D - n + 1) \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1) \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i - n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_{sa} + j_{sa} - j_{sa}^{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee \\ & ((D \geq n < n \wedge l_s > D - n + 1) \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1) \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i - n \wedge \\ & l_{ik} - 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee \\ & ((D \geq n < n \wedge l_s > D - n + 1) \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1) \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \end{aligned}$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{SDOST} = \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s+l-1)} \sum_{(j_i=j_s+s-1)}^{(l_{sa}+s-1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{(j_s-j_i-\mathbb{k})}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(n_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s+l-1)} \sum_{(j_i=j_s+s-1)}^{(l_{sa}+s-1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}} \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_s-n-\mathbb{k}-j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-l)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq D + s - n \wedge$

$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s > 2 \wedge s = s + 1 \wedge$

$\mathbb{k}: z = 1 =$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=s+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l-l+1} \sum_{j_i=l_{ik}+s-j_{sa}^{ik}+2}$$

$$\sum_{n_i=n+l-k}^n \sum_{(n_{is}=n+l-k-j_s+1)}^{(j_s+1)} \sum_{n_s=n-j_i+1}^{j_i-k}$$

$$\frac{(n_i - n_s - k)!}{(j_s - 1)! \cdot (n_i - n_s - k + 1)!}$$

$$\frac{(n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=s+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

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$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i - l_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_i - l + 1} \sum_{j_i = j_s + s - 1}^{l_i - l + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i+l_k)}^{(n_{is}-s-l_k)} \frac{(n_{is}+j_s-n+l_k)! \cdot (n+l_k-j_s-s)!}{(l_s-l)! \cdot (l+1)! \cdot (j_s-2)!} \cdot \frac{(l-l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s < n - 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - j_{sa}^{ik} + 1 = l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq l + l_s + 1 - n + 1 \wedge$$

$$D \geq n < n \wedge l = k > 1 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^i, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = j_{sa}^i + k \wedge$$

$$k \geq 2 \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)} l_{ik+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{iS}=n+\mathbb{k}-j_S+1)}^{(n_i-j_S+1)} \sum_{n_S=n-j_i+1}^{n_{iS}+j_S-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{iS} - 1)!}{(j_S - 2)! \cdot (n_i - n_{iS} - j_S + 1)!} \cdot \\
 & \frac{(n_{iS} - n_S - \mathbb{k} - 1)!}{(j_i - j_S - 1)! \cdot (n_{iS} + j_S - n_S - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_S - 1)!}{(n_S + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_S - l - 1)!}{(l_S - j_S - l + 1)! \cdot (j_S - 2)!} \cdot \\
 & \frac{(l_i - l_S - s + 1)!}{(j_S + l_i - j_i - l_S - l + 1)! \cdot (j_i - j_S - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{s=2}^{(l_{ik} - j_{sA}^{ik} + 2)} \sum_{j_i=l_{ik}+s-l-j_{sA}^{ik}+2}^{l_i-l+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{iS}=n+\mathbb{k}-j_S+1)}^{(n_i-j_S+1)} \sum_{n_S=n-j_i+1}^{n_{iS}+j_S-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{iS} - 1)!}{(j_S - 2)! \cdot (n_i - n_{iS} - j_S + 1)!} \cdot \\
 & \frac{(n_{iS} - n_S - \mathbb{k} - 1)!}{(j_i - j_S - 1)! \cdot (n_{iS} + j_S - n_S - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_S - 1)!}{(n_S + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_S - l - 1)!}{(l_S - j_S - l + 1)! \cdot (j_S - 2)!} \cdot \\
 & \frac{(l_i - l_S - s + 1)!}{(j_S + l_i - j_i - l_S)! \cdot (j_i - j_S - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{ik+s-l}-j_{sa}^{ik}+1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik}-l_k)}^{()} \frac{(n_{is}-s-l_k)!}{(n_{is}+j_s-n-l_k-j_{sa}^{ik})! \cdot (n+j_{sa}^{ik}-s)!} \cdot \frac{(l_s-l-1)!}{(j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(D-l)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - j_{sa}^{ik} \geq l_{ik} \wedge$$

$$D + s - n < l_i \leq l_s + s - n - l_k \wedge$$

$$D \geq n < n \wedge l = k > 0$$

$$j_{sa}^{ik} - j_{sa}^i - 1 \wedge j_{sa}^s - j_{sa}^{ik} - 1$$

$$S: \{j_{sa}^s, \dots, l_k, j_{sa}^i\} \vee S: \{j_{sa}^i, \dots, j_{sa}^{ik}, l_k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = j_s - l_k \wedge$$

$$l_k = 1$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(n - l_i)!}{(n - j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{l_{ik}-l-j_{sa}^{ik}+1} \sum_{j_s=l_i+n-D-s+1}^{j_s+l_i+n-D-s+1} \sum_{j_i=j_s+s-1}^{j_i+l+1}$$

$$\sum_{n_{is}=n+\mathbb{k}-j_s+1}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_i+n-D-s+1} \sum_{j_i=j_s+s-1}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(\quad)}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_s-n-\mathbb{k}-j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!}$$

$$\frac{(l_s-l-j_s+1)! \cdot (l-j_s-2)!}{(l_s-j_s-s+1)! \cdot (l-j_s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-l_i-l)! \cdot (n-j_i+1)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = i > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^l - j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \{j_{sa}^s, \dots, j_{sa}^{ik}, j_{sa}^l\} \wedge$$

$$s > 2 \vee s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{k=0}^{(l_{ik} - l_{is} - \mathbb{k} + 2)} \sum_{i_s=l_i+1}^{i_s+l_s-1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{i_k=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}) \cdot \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_s}^{l_s+s-l}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(j_i - i_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}{(j_i - i_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i + l_s - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-l+1}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{ik}+n+l_s-l}^{()} \sum_{n_i=n}^{()} \sum_{n_{is}=n+l_k-j_s+1}^{()} \frac{(n_{is} + s - k)!}{(n_{is} + j_s - n - k - j_s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n, l \neq i \wedge l \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} - j_{sa}^{ik} - s = l_{ik} \wedge$

$D - l_s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n, l = k > 0 \wedge$

$j_{sa}^s - j_{sa}^s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$

$s > 2 \wedge s = s + k \wedge$

$k_z: z = 1 \Rightarrow$

$$\begin{aligned}
f_{j_s, j_i}^{S_{DOST}} = & \sum_{k=l}^{(l_{ik}+n-D-j_{s\bar{a}}^{ik})} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{s\bar{a}}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{s\bar{a}}^{ik}}^{n} \\
& \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{(n_{is}=n+k-j_s+1)}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i}^{(n_i-n_{is}-1)!} \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \\
& \frac{(n_{is}-n_s-k-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-k)!} \cdot \\
& \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \\
& \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \\
& \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_i-n-l_i)! \cdot (n-j_i)!} + \\
& \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{s\bar{a}}^{ik}+1)}^{l_{ik}+s-l-j_{s\bar{a}}^{ik}+1} \sum_{j_i=j_s+s-1}^{n} \\
& \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{(n_{is}=n+k-j_s+1)}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \\
& \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \\
& \frac{(n_{is}-n_s-k-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i-k)!} \cdot \\
& \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \\
& \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \\
& \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n_i + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik})}^{(n_{ik} + j_s + j_{sa}^{ik} - j_s - \mathbb{k})} \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k})! \cdot (n_{is} - j_s - \mathbb{k})!} \cdot \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq n - 1$

$D + l_s + s - n - l_i + 1 \leq l_s - l - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i - 1 \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s - l_i + j_{sa}^s - s - j_{ik} \wedge$

$D + s - n < l_i \leq D + s - n - 1 \wedge$

$D \geq n < n - \mathbb{k} > \mathbb{k} \wedge$

$j_{sa}^{ik} - j_s^s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, j_{sa}^{ik}\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s - \mathbb{k} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = 2)}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{j_i = l_{ik} + n + s - D - j_{sa}^{ik}}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l - l_s - s - 1)!}{(j_s + l_i - n - l_s - j_i - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{i=l}^{(l_s-l+1)} \sum_{(j_i=n+\mathbb{k}+n-D-j_{sa}^{ik}+1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)} \\
 & \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D > n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}^{n_i} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
&\frac{(n_{i_s} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i - l_k)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{n_i} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
&\frac{(n_{i_s} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i - l_k)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{(j_s=j_{i-s+1})} \sum_{j_i=s+1}^{l_s+s-l}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-k)}^{(n_{ik}+j_s+j_{sa}^{ik}-k)}$$

$$\frac{(n_{is} - s - k)! \cdot (n - n_{is} - j_s - s)!}{(n_{is} + j_s - n - k)! \cdot (n - n_{is} - j_s - s)!}$$

$$\frac{(l_s - k)!}{(l_s - k - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq i) \wedge l \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i) \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} \leq n) \vee$$

$$(D \geq n < n \wedge l \neq i) \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\}$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1}^{(l_s-l+1)}$$

$$\sum_{n_i=n+k}^n \sum_{(n_i=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik})}^{()}$$

$$\frac{(n_{is}-s-1)! \cdot (n+j_{sa}-s)!}{(n_{is}+j_s-n-k-j_{sa}^{ik})! \cdot (n+j_{sa}-s)!}$$

$$\frac{(j_s-l-1)!}{(j_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D+j_s-n-l_i)! \cdot (n-j_i)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$

$D + j_{sa}^{ik} - 1 \leq l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_{z^s}^{OST} = \sum_{k=l}^n \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{j_i+s-l} \sum_{n_i=n-k}^n \sum_{(n_{is}=n+k-j_s+1)}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_s - l - s + 1)!}{(j_s + l_i - l_s - l + 1)! \cdot (i_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{l=1}^{()} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{()} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \\
 & \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$D \geq n < n \wedge l = i \wedge s > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^{ik}\} \vee s: \{l_i, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 0 \wedge \mathbb{k} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 =$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{j_s=l_i+n-D-s+1}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n=n+\mathbb{k}}^n \sum_{n_s=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_i+n-D-s+1} \sum_{j_i=j_s+s-1}$$

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$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_{is}-s-l_k)!}{(n_{is}+j_s-n-l_k-j_{sa}^s)! \cdot (n+j_s-j_s-s)!}$$

$$\frac{(l_s-l-j_s-1)!}{(l_s-j_s-1)! \cdot (l_s-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-l_i)! \cdot (n-j_i)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_{ik} \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\}$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$S_{j_s, l_s}^{DOST} \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{(l_s-l+1)}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{is}-s-k-j_{sa}^s) \cdot (n+j_{sa}^s-s)!}{(n_{is}+j_s-n-k-j_{sa}^s) \cdot (j_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D+j_s-n-l_i)! \cdot (n-j_i)!}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq l_s + s - n - 1 \wedge$$

$$D > n < n \wedge k > 0$$

$$j_{sa}^{ik} - j_{sa}^i - 1 \wedge j_{sa}^s - j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^i, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = j_{sa} - k \wedge$$

$$k_{sa}^i = j_{sa}^i - 1$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{(j_i-s+1) l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\begin{aligned}
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa+s-l-j_{sa}+1}} \sum_{j_i=l_i+n-D}^{()}
 \end{aligned}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_s-n-\mathbb{k}-j_{sa}^s)! \cdot (n+j_s-j_s-s)!}$$

$$\frac{(l_s-l-j_s+1)! \cdot (l_s-l-2)!}{(l_s-j_s-j_s+1)! \cdot (l_s-l-2)!}$$

$$\frac{(D-l_i)!}{(D+j_i-l_i-l)! \cdot (n-j_i-l)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1$$

$$j_s + s - 1 \leq j_i \leq n$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_i = l_{ik} \wedge l_{sa} - s > 0$$

$$D + s - n < l_i \leq D + l_s - n - 1$$

$$D \geq n < n \wedge l = \mathbb{k} > 0$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^i - 1$$

$$S = \{j_{sa}^s, \dots, \mathbb{k}\} \vee S = \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k}$$

$$\mathbb{k}_z: z = \dots \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\begin{aligned}
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l+1} \sum_{j_i=j_s+s-1}^{l+1} \\
 & \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{(n_i=n+k-j_s+1)}^{n_{is}+j_s-j_i-k} \sum_{j_i+1}^{j_i+1} \\
 & \frac{(n_{is} - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}
 \end{aligned}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i + j_{sa} - s \wedge l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \wedge s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = i + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l_s+2)} \sum_{(j_s=l_i-D-s+1)}^{j_i=j_s+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^{n_i=j_{sa}^s-j_{sa}^{lk}} \sum_{s=n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^{-\mathbb{k}}}$$

$$\frac{(n_i - j_s - \mathbb{k})!}{(n_i - j_s - \mathbb{k} - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq l_s < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_s - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i - s$$

$$l_{ik} - j_{sa}^{ik} + s = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i + s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_{s_a}^{ik}+1}} \sum_{j_i=l_{sa+n+s-D-j_{sa}}}^{n_{is+j_s-j_i}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l - 1)!}{(l_s + j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l - l_s - s + 1)!}{(j_s + l - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik-l-j_{s_a}^{ik}+2})} \sum_{(j_s=2)}^{l_{sa+s-l-j_{sa}+1}} \sum_{j_i=l_{ik+s-l-j_{s_a}^{ik}+2}}^{n_{is+j_s-j_i-\mathbb{k}}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+s-1-j_{sa}^{ik}+1} \sum_{i=l_{sa}+n+1}^{D-j_{sa}} \sum_{n_i=n}^n \sum_{n_{is}=n+k-j_s+1}^{()} \frac{(n_{is} + s - k)!}{(n_{is} + s - n - k - j_s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n, l \neq i \wedge l \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D - l_s - 1 < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n, l = k > 0 \wedge$

$j_{sa} - j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$

$s > 2 \wedge s = s + k \wedge$

$k_z: z = 1 \Rightarrow$

$$\begin{aligned}
fzS_{j_s, j_i}^{DOST} = & \sum_{k=l} \sum_{(j_s=2)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{ik}-l-j_{sa}^k+2)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \\
& \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik})}^{(n_{ik} + j_s + j_{sa}^{ik} - l - \mathbb{k})} \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k})! \cdot (n + j_s - j_s - s)!} \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq j_i \wedge l_s \leq n - n + 1$

$D + l_s + s - n - l_i + 1 \leq l_s - l - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i - 1 \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s - l_{sa} + j_{sa}^s - j_{sa}^{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + j_s + s - n - 1 \wedge$

$D \geq n < n - l = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} - j_s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s - j_{sa}^s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(j_s + l_i - n - l_s - 1)!}{(j_s + l_i - n - l_s - 1)! \cdot (j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{i=1}^{j_s-1} \sum_{j_s+n-D-j_{sa}+1}^{j_s+l_i-1} \sum_{j_i=j_s+s-1}^{j_s+l_i-1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{is}-s-l_k)} \sum_{(n_s=n_{ik}+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(n_i-j_s+1)} \\
 & \frac{(n_{is} - s - l_k)!}{(n_{is} + j_s - n - l_k - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + 1 \wedge$$

$$\mathbb{k} : z = 1 =$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n} \sum_{(n_i=n+\mathbb{k})}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s-l+1}^{j_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l_k}$$

$$\frac{(n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

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$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D > n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^i, \dots, \mathbb{k}, j_{sa}^i\} \vee s \in \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_{zS_{j_s, j_i}}^{DOST} = & \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s - l - 1)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = n + k}^n \sum_{(n_{is} + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{ik} + j_s + j_{sa} - k)}^{(n_{is} - s - k)} \frac{(n_{is} - s - k)! \cdot (n - j_s - s)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1) \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge \\ & 1 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\ & D + s - n < l_i \leq D + l_s + s - n - 1) \vee \\ & (D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge \\ & 1 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\ & D + s - n < l_i \leq D + l_s + s - n - 1) \vee \\ & (D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge \end{aligned}$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^l - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^l\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^l\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=2)}^{l_{sa}+s-1} \sum_{j_{sa}^{sa+1}}^{j_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=1}^n \sum_{(n_{is}=n+k-j_s+1)}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1}$$

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$$\sum_{n_i=n+k}^n \sum_{(n_i=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()}$$

$$\frac{(n_{is} - s - k)!}{(n_{is} + j_s - n - k - j_{sa}^s)! \cdot (n + j_s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (n - j_i)!}$$

$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq D + s - n) \vee$

$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq D + s - n) \vee$

$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq D + s - n) \vee$

$(D \geq n < n \wedge l = l \wedge l_i \leq D + s - n \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s}^{D+l} = \sum_{k=i}^l \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{l_i - i^{l+1}}$$

$$\sum_{n_i=n+k}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-k+1)}$$

$$\frac{(n_i - n_s - k - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - k + 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!}$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$\sum_{k=i}^l \sum_{(j_s=1)}^{()} \sum_{j_i=s}^{()}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}^{()}$$

$$\frac{(n_i + j_s - s - k - j_{sa}^s)!}{(n_i + j_s - n - k - j_{sa}^s)! \cdot (n - s)!}$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

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$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(l_{ik}+s-l-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(n-D)}^{(j_i-s+1)} \sum_{(n)}^{(j_i-s+1)} \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{(n_{is}+j_s-j_i)} \frac{(n_i - n_{is} - 1)!}{(i - l - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_i=l_{ik}+s-l-j_{sa}^{ik}+2)}^{l_i-l+1} \sum_{(n)}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{(n_{is}+j_s-j_i)} \sum_{(n_s=n-j_i+1)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{\mathbb{k}=1}^{(j_s - j_i - 1)} \sum_{j_i = l_i + n - D}^{j_{sa}^{ik} + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$l_s > j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_{z,j_s,j_i}^{SDOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_i-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{j_i = l_i + n - D - s + 1}^{j_i = l_i + s - 1} \sum_{n_i = n - l_i}^n \sum_{n_{is} = n + k - j_s + 1}^{n_{is} = n} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_i > D - j_i + 1 \wedge D + l_i + s - n - j_i + 1 \leq l_i \wedge n + 1 \wedge 2 \leq j_s = l_i - s \wedge j_s + s \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} - 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge D \geq n < n \wedge l = k = 0 \wedge j_{sa}^s = j_{sa} - 1 \wedge s: \{j_{sa}^s, j_{sa}^i\} \wedge s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_z^{S_{j_s, j_i}^{DOST}} = & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_{ik}-l+1} \sum_{j_i=j_s+s-1}^{l_{ik}-l+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{ik}+j_{sa}^{ik}-s-k-j_{sa}^s)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(n_s-n_{ik}-j_s-k)} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s-1)} \sum_{(j_s=l_s+n-D)}^{j_i+l_s+n+s-D-j_{sa}^{lk}} \sum_{n_i=n}^{n} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{n_s+n-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{ik}+s-l-j_{sa}^{lk}+1} \sum_{n_i=n}^{n} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{n_s+n-j_i}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_s - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{n_i - j_i - s + 1} \sum_{l_{ik} + n + s - D - j_{sa}^{ik}}^{n_i - j_i - s + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_i - j_s + 1)} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{(n_i - j_s + 1)} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$l_s - l_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{(j_s=l_s+n-D)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_s-n_{is}-1)!} \frac{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}{(n_{is}-n_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{n} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \frac{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}{(n_{is}-n_s-1)!} \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)}^{(l_s - l + 1)} \sum_{j_s = s - 1}^{(l_s - l + 1)}$$

$$\sum_{n_i = n - j_s}^n \sum_{n_{is} = n + k - j_s + 1}^{(n - j_s)}$$

$$\sum_{n_{ik} = n_{is} - j_{sa}^{ik} (n_{is} - j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{((n_{ik} + j_{sa}^{ik} - s - k - 2 \cdot j_{sa}^s)!) \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge (l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee (D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge (l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee (D \geq n < n \wedge l_s > D - n + 1 \wedge 2 \leq j_s \leq j_i - s + 1$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_s+s+1)} \sum_{j_i=l_i}^{(j_s+s-l)} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(j_s - n_s - 1)!}{(j_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{j_i=l_s+n-D}^{l_i-l+1} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

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$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l_i}^{l_s+s-1} \sum_{n_{is}=n+l_k-j_s+1}^{n_{is}=n+l_k-j_s+1} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}}^{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}} \frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - l_k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D \geq n < n + 1 \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\ & (D \geq n < n + 1 \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \end{aligned}$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{i_i}^{POST} = \sum_{k=l}^{(l_s - l + 1)} \sum_{j_i=l_i+n-D}^{(l_s+n-D)} \sum_{j_i=l_i+n-D}^{(l_i-l+1)} \frac{(n_i - j_i + 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s - l + 1)} \sum_{j_i=l_i+n-D-s+1}^{(l_s - l + 1)} \sum_{j_i=j_s+s-1}^{(l_i - l + 1)}$$

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$$\begin{aligned}
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_s - s - 1)!}{(j_s + l_i - n - l_s - j_i - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=1}^{(l_s-l+1)} \sum_{n_i=n+k}^{(l_s-l+1)} \sum_{n_{is}=n+k-j_s+1}^{(l_s-l+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^n \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}}^{(n_i-j_s+1)} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_s + n - D)}^{l_i - l + 1} \sum_{j_i = l_i + n - D}^{n_i - j_s + 1} \sum_{n_i = n}^{n_{is} + j_s - j_i} \sum_{(n_{is} = n - j_s + 1)}^{n_s = n - j_i + 1} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_i+n-D-s+1}^{j_s+l_s-1} \sum_{n_i=n}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}+k} \sum_{n_{ik}=n_{is}-j_{sa}^{ik}}^{n_{is}+k+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - s - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n_{ik} > D - l_i + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n_{ik} \wedge I = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l \wedge$$

$$s: \{j_{sa}, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{j_s+l_s-1} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1}$$

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$$\begin{aligned}
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{sa}-l-s+2)} \sum_{j_{sa}=n-k}^{l_{sa}+n-k} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s) \cdot (n + j_{sa}^s - s)!}$$

$$\frac{(l_s - l + 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = l_s = 0 \wedge$$

$$j_s \leq j_{sa}^i - 1$$

$$s: \{ \dots, j_{sa}^i \} \wedge$$

$$\geq 2 \wedge s = s \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n} \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{n_{is}=n+k-j_s+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - l)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n}$$

$$\sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i + j_{sa} - s \wedge l_{sa} \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{j_s+s-1} \sum_{n_i=n}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}+k} \sum_{n_{ik}=n_{is}-j_{sa}^{ik}}^{n_{is}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - s - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D > n < n \wedge n > D - l_i + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D > n \wedge I = \mathbb{k} = 0 \wedge$

$j_{sa}^s \leq j_{sa}^l \wedge$

$s: \{j_{sa}, j_{sa}^l\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\begin{aligned}
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^l \sum_{j_{sa}^{ik}+1}^{(l_{ik}-l_{sa}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_{sa}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik})}^{()}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa})}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^{ik})} \cdot \frac{(n + j_{sa}^{ik} - j_{sa}^{ik} - s)!}{(l_s - 1)!} \cdot \frac{(l_s - 1)!}{(j_s - 2)!} \cdot \frac{(D - l_i)}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} > l_{ik} \wedge l_{sa} - j_{sa} - s = l_{sa} \wedge$

$D \geq n < n \wedge I = l_{sa} - 0 \wedge$

$j_s \leq j_{sa}^i - 1$

$s: \{j_{sa}^i\} \wedge$

$\geq 2 \wedge s - s \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n-(n_i-j_s+1) - n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n-(n_i-j_s+1) - n_{is}+j_s-j_i}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_i + j_{sa} - s \wedge l_{sa} \wedge$

$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$

$j_{sa}^s \leq j_{sa}^l - 1 \wedge$

$s: \{j_{sa}^s, j_{sa}^l\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$f_{j_i}^{s, ST} = \sum_{k=l}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{(j_i=l_{sa}+n+s-D-j_{sa})} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$



$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)}^{(j_i - l_i - s + 1)} \sum_{n_i = n - l_i}^n \sum_{n_{is} = n + l_k - j_s + 1}^{(n - j_s - l_i - k)} \frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - l_k - 2 \cdot j_s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$
- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$
- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{(j_i-l_s+1)} \sum_{(j_i=l_{sa}+n+s-l)}^{(l_s+s)} \dots$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \dots$$

$$\frac{(j_s - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(j_s - n_s - 1)!}{(j_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s+s-l+1} \dots$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \dots$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

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$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l_i}^{(n)} \sum_{n_{is}=n+k-j_s+1}^{n_{is}=n+k-j_s+1} \sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}+j_{sa}^{ik}-s-l-k-j_{sa}^s)!} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}^{(n_{ik}+j_{sa}^{ik}-s-l-k-j_{sa}^s)!} \cdot \frac{(n_{ik} + j_{sa}^{ik} - s - l - k - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - l - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n + 1) \wedge (l_s > D - n + 1) \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n + 1 \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$(l_s - l - D - j_s + 1) \cdot (l_s + j_s - j_{sa} + 1)$

$$S_{j_s, j_i}^{DOST} = \sum_{k=l}^{j_s-1} \sum_{i_s=l_s+n-k}^{j_s-1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{j_s-1} \sum_{n_i=n_i-1}^{(n_i-1)} \sum_{n_s=n_s-1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l-1)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{j_s-1}$$

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$$\sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(j_s + l_i - n - l_s - 1)!}{(j_s + l_i - n - l_s - 1)! \cdot (j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{(l_s-l-1)} \sum_{j_i=n-D-j_{sa}+1} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^k-j_{sa}^k} \sum_{n_s=n_{ik}+j_s+j_{sa}^k-j_i-j_{sa}^k}$$

$$\frac{(n_{ik} + j_{sa}^k - s - k - j_{sa}^k)!}{(n_{ik} + j_s + j_{sa}^k - n - k - 2 \cdot j_{sa}^k)! \cdot (n + j_{sa}^k - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{j_s} \sum_{j_i=j_s+s-1}^{n-j_s} \sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{n-k} \sum_{(n_{ik}=n_{is}-j_{sa}^{ik}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(n_{ik}+j_{sa}^{ik}-s-k-j_{sa}^s)} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - s - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l \leq D - n + 1 \wedge 1 \leq i \leq j_i - s + 1 \wedge j_i + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 \leq l_i \wedge l_{ik} - j_{sa}^{ik} - s > l_{ik} \wedge l_i \leq D + j_i - n \wedge D \geq n < n \wedge l = k = 0 \wedge j_{sa}^s = j_{sa} - 1 \wedge s: \{j_{sa}^s, j_{sa}^i\} \wedge s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_z^{\mathcal{S}_{j_s, j_i}^{DOST}} &= \sum_{k=l}^{(j_i-s+1) l_{ik+s-l-j_s a}^{ik+1}} \sum_{(j_s=2)} \sum_{j_i=s+1} \\
 &\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_{ik-l-j_s a}^{ik+2})} \sum_{(j_s=2)} \sum_{j_i=l_{ik+s-l-j_s a}^{ik+2}}^{l_i-l+1} \\
 &\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=s+1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik})}^{()} \frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - j_{sa}^s)! \cdot (n + j_s - j_i - j_s - s)!} \frac{(l_s - l - j_{sa}^s)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_i \neq -n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \wedge$$

$$l_s - j_{sa}^{ik} + 1 \leq l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = 0 \wedge$$

$$j_{sa}^s \leq j_s - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\}$$

$$s > 1 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=2)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(n_i - n - 1)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_s)} \sum_{j_i=j_s+s-1}^{(n - j_s + 1)} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i - j_s + 1)} \sum_{k=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{()} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 - j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_i-s+1) l_{ik+s-l-j_{sa}^{ik}}} \sum_{(j_s=2)} \sum_{j_i=n-D}^{n-j_s+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik-l-j_{sa}^{ik}+2})} \sum_{(j_s=2)} \sum_{j_i=l_{ik+s-l-j_{sa}^{ik}+2}}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{\binom{l_i + s - j_{sa}^{ik} + 1}{j_s = j_{sa}^{ik} + 1}} \sum_{j_i = l_i + n - k}^{\binom{n - (n_i - j_s + 1)}{n_i = n + k} \binom{(n_i - j_s + 1)}{n_i = n + k}} \sum_{j_{sa} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{\binom{n - (n_i - j_s + 1)}{n_i = n + k} \binom{(n_i - j_s + 1)}{n_i = n + k}} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq l < n \wedge l \neq i \wedge l \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_{sa}^s + 1 \wedge$$

$$j_s + 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + s = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n_i-n_j_s+1} \sum_{n_i=n}^n \sum_{(n_{i_s}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{i_s}+j_s-j_i} \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{s\bar{a}}^{lk}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_i-n_j_s+1} \sum_{n_i=n}^n \sum_{(n_{i_s}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_{i+1}}^{n_{i_s}+j_s-j_i} \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \frac{(n_{i_s} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

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$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i = n + 1}^n \sum_{(j_s + 1)} \sum_{(j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - n_{is} + j_s + 1}^{(n_{ik} + j_s + j_{sa}^{ik} - n - l_s - 2 \cdot j_{sa}^s)} \sum_{(j_s - j_i - j_{sa}^s - k)}$$

$$\frac{(n_{ik} + j_s + j_{sa}^{ik} - n - l_s - 2 \cdot j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_s - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq 0 \wedge l_s \leq D - l + 1 \wedge$$

$$D + l_s + s - n - l_i - 1 \leq l \leq i - 1$$

$$2 \leq j_s \leq j_i - s$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + l_s + s - n < l_i - 1 + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$l < i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_{j_s, j_i}^{S_{DOST}} = & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{(n_{ik}+j_{sa}^{ik}-s-k-j_{sa}^s)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(n_s)} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz^S_{j_s, j_i}^{DOST} \sum_{j_s=1}^{j_i-s+1} \sum_{l_s=1}^{l_s+s-l} \sum_{n_i=n-j_s+1}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-l+1}^{n_i-j_s+1} \sum_{n_i=n-j_s+1}^{n_i+j_s-j_i} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i}$$

GÜLDÜNKYA

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{\binom{D-l_i}{j_i-j_s+1}} \sum_{\substack{l_{ik}+j_{sa}^s=j_i-s+1 \\ l_{ik}+n+s-D-j_{sa}^{ik}}} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}}^{\binom{D-l_i}{j_i-j_s+1}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}^{\binom{D-l_i}{j_i-j_s+1}} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l_i \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 - j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$

$j_{sa}^s \leq j_{sa}^i - 1 \wedge$

$s: \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n-D-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i+1)} \sum_{n_s=n-j_i+1}^{n_i-j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 1)! \cdot (n_i + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

GÜLDENRA

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{l_s - l} \sum_{j_s = l_{ik} + n_{is} - j_{sa}^{ik} + 1}^{j_s} \sum_{j_i = j_s + 1}^{n} \sum_{n_i = n + k}^n \sum_{n_{is} = n_{is} - j_s + 1}^{(n_i - j_s + 1)} \sum_{n_{is} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_{is} - j_s + 1)} \sum_{n_{is} = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k}^{(n_{is} - j_s + 1)} \frac{(n_{ik} + j_{sa}^{ik} - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq l_s < n \wedge l \neq j_i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq j_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \wedge n \wedge$$

$$l_{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$s: \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{ik}}^{(n_i-j_s+1)} \sum_{n_i=n}^{n_{is}+j_s-1} \sum_{(n_{is}=n-j_s+1)}^{n-j_i+1} \frac{(n_i-1)!}{(j_s-2)! \cdot (n_i-n_{is}+1)!} \cdot \frac{(n_{is}-1)!}{(j_i-1)! \cdot (n_{is}-n_s-j_i)!} \cdot \frac{(n_s)}{(n_s+j_s-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_s-l-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \cdot \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{j_i=j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \frac{(n_{ik}+j_{sa}^{ik}-s-k-j_{sa}^s)!}{(n_{ik}+j_s+j_{sa}^{ik}-n-k-2 \cdot j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

GÜLDÜMBA

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}^{l_s+s-l}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{i=s+1}^{l_s+s-l} \sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{()} \sum_{(n_{ik}=n_{is}-j_{sa}^{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{()} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - s - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & (D \geq n < n - l \neq l_i \wedge l_s \leq D - n + 1 \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge \\ & l_i \leq D + j_{sa}^{ik} - n) \vee \\ & (D \geq n < n - l \neq l_i \wedge l_s \leq D - n + 1 \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge \\ & l_{ik} \leq D + j_{sa}^{ik} - n) \vee \end{aligned}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-l_k)}^{(n_{ik}+j_s+j_{sa}^{ik})} \frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_s - 1)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - j_s - 1)! \cdot (n + j_s - j_s - s)!} \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

- $((D \geq n < n \wedge l \neq i) \wedge l \leq D - n + 1$
- $1 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$
- $(D + j_{sa} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$
- $((D \geq n < n \wedge l \neq i) \wedge l \leq D - n + 1 \wedge$
- $1 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$
- $(D + j_{sa} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$
- $((D \geq n < n \wedge l \neq i) \wedge l_s \leq D - n + 1 \wedge$
- $1 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOS} \sum_{k=l}^{s+1} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{n_i-n} \sum_{(n_i=n-j_s+1)}^{n_i+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge
 \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k =$$

$$j_{sa}^s - j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\}$$

$$s \leq j_{sa}^s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{j_i=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_s=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^s} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s) \cdot (n + j_{sa}^s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - l + 1) \cdot (j_s - 2)!} \cdot \frac{(D - l)}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1))$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_{ik} + j_s + j_{sa}^{ik} - k)} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_s - 1)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - j_s - 1)! \cdot (n + j_s - j_s - s)!} \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq -n + 1$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq \wedge$

$l_s - j_{sa}^{ik} + \dots \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$D + s - n < l_i \leq \dots \wedge l_s + \dots = n - 1 \wedge$

$D \geq n < n \wedge l = k = \wedge$

$j_{sa}^s \leq j_{sa}^i - \wedge$

$s: \{ \dots \} \wedge$

$s \geq 2 \wedge s = \Rightarrow$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i - s + 1)} \sum_{(j_s = 2)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = l_i + n - D}^{n_{is} + j_s - j_i} \sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_s = n - j_i + 1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{(l_{sa} - j_{sa} + 2)} \sum_{(j_s=2)}^{(n_i - j_s + 1)} \sum_{i=l_{sa} + s - l - j_{sa} + 2}^{n_{is} + j_s - j_i}$$

$$\sum_{(n_{is}=n-j_s+1)}^{(n_i - j_s + 1)} \sum_{(n_s=n-j_i+1)}^{n_{is} + j_s - j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i=l_i+n-D}$$

GÜLDÜZMAYA

$$\frac{\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(\)} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_s - j_s - s)!} \cdot \frac{(l - l - 1)!}{(l_s - j_s - l - 1)! \cdot (l - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \dots$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - i = l_{ik} \wedge l_i - j_{sa} - s > \dots \wedge$

$D + s - n < l_i \leq D + l_s - s - n - 1 \wedge$

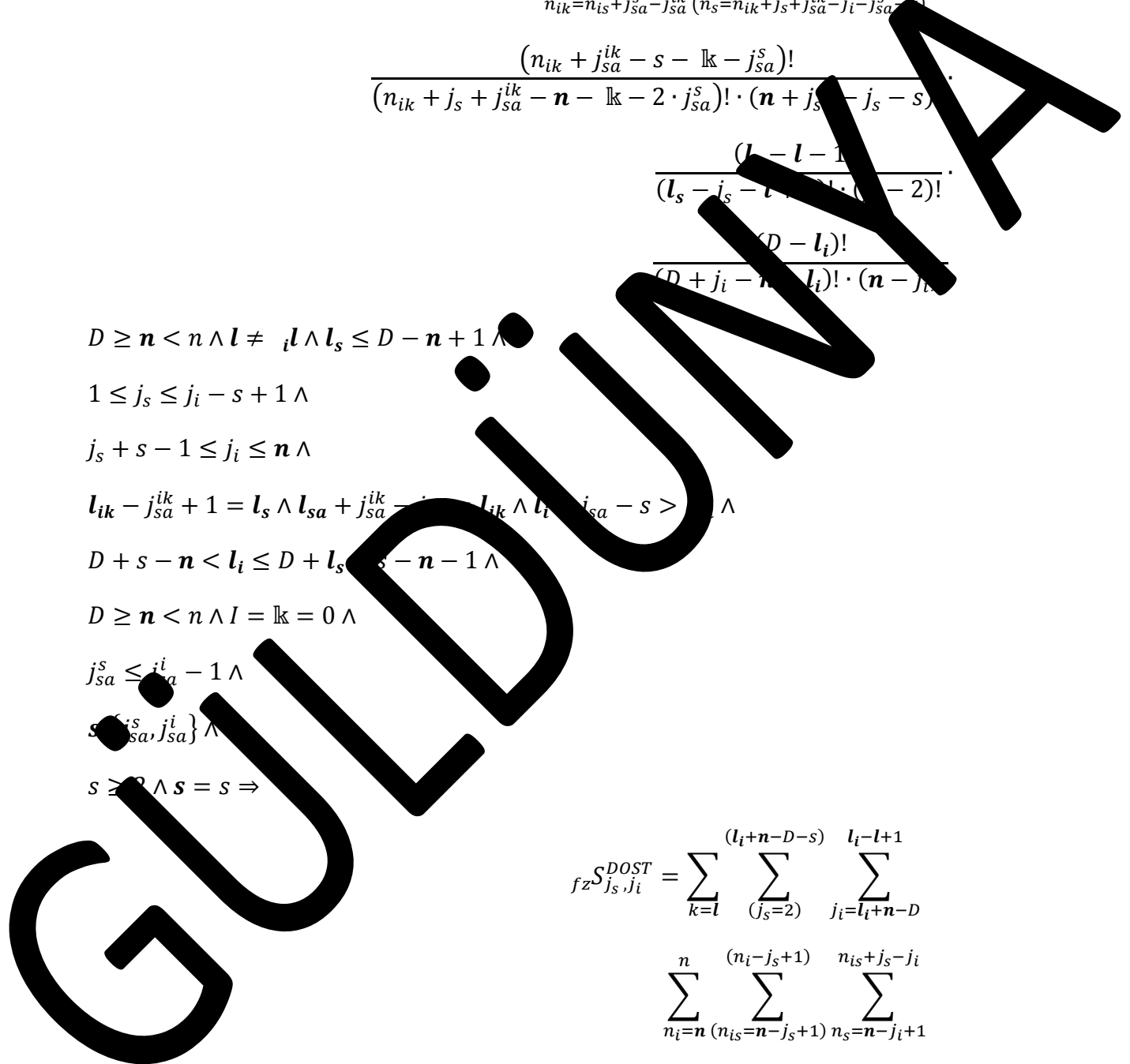
$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$

$j_{sa}^s \leq j_{sa}^i - 1 \wedge$

$s \in \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \dots$$



$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l+1} \sum_{j_i=j_s+s-1}^{n-j_s+1}$$

$$\sum_{n_i=n+l-k}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{-j_i+1}^{n_{is}-j_s+1}$$

$$\frac{(n_{is} - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - j_s + 1)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^{n-j_s+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

GÜLDÜZMAYA

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$

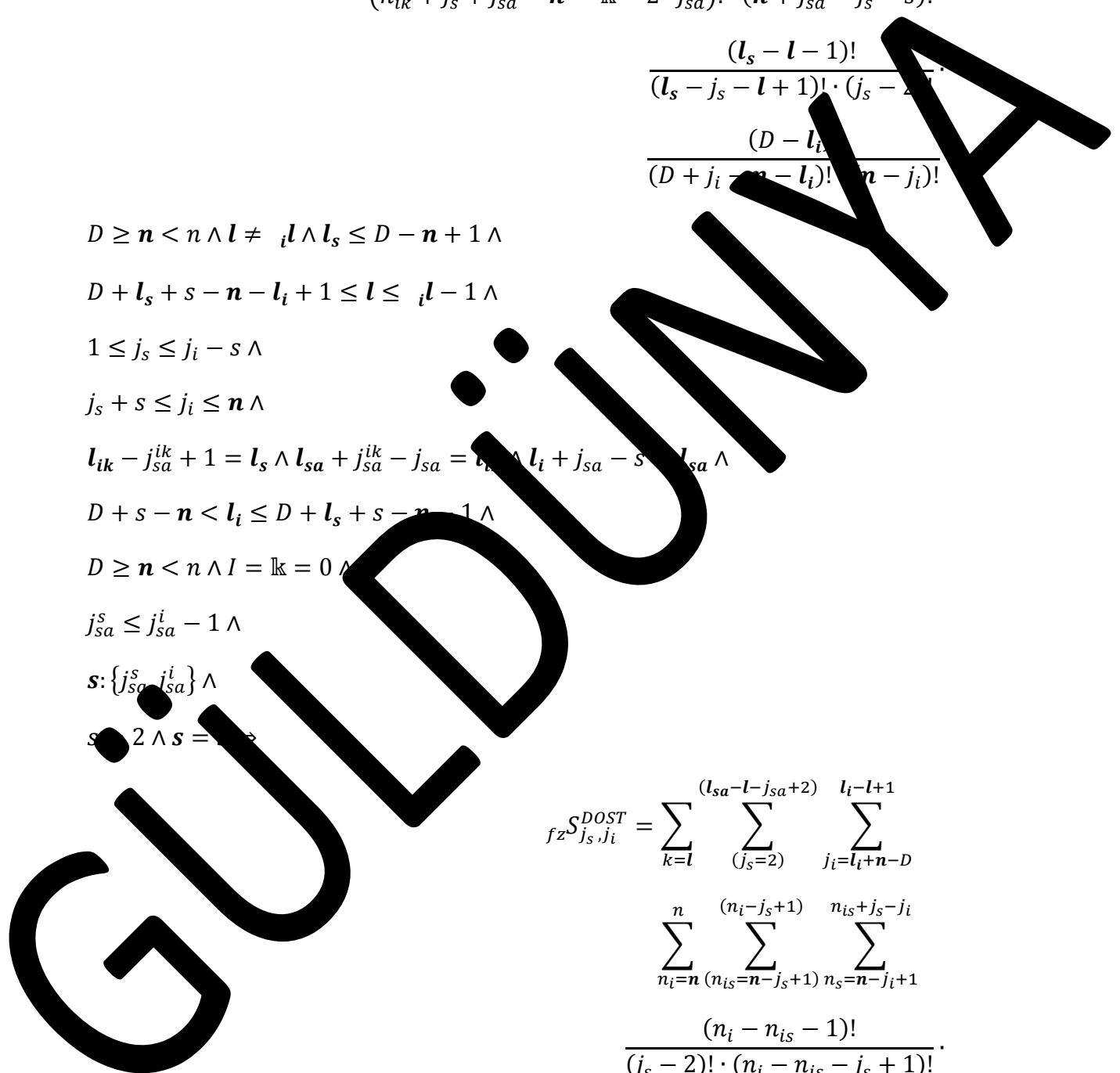
$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$

$j_{sa}^s \leq j_{sa}^i - 1 \wedge$

$s: \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \cdot 2 \wedge s = i \Rightarrow$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n} \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$



$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{j_s+l_s-1} \sum_{n_i=n}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}+k} \frac{(n_{ik} + j_{sa}^i - s - k - j_{sa}^i)!}{(n_{ik} + j_s + j_{sa}^i - s - k - 2 \cdot j_{sa}^i)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n + l \wedge i \neq l \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq i \leq j_i - s + 1 \wedge$$

$$j_i + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_i \wedge l_i + j_{sa}^{ik} - j_{sa}^i > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D - j_s - 1 \leq l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n + l \wedge l = k = 0 \wedge$$

$$j_{sa}^s = j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_z^{S_{j_s, j_i} DOST} = & \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n} \\
 & \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \\
 & \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \\
 & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \\
 & \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \\
 & \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \\
 & \frac{(D-l_i)!}{(D-l_i-n-l_i)! \cdot (n-j_i)!} + \\
 & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{n} \\
 & \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \\
 & \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \\
 & \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \\
 & \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \\
 & \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \\
 & \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot
 \end{aligned}$$

GÜLDÜZÜM

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik+s-l-j_{sa}^{lk}+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(n_i-j_s+1)} \sum_{n_i=n+lk}^{(n_{is}+lk-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{ik}+j_s+j_{sa}^{lk}-j_i-lk)} \frac{(n_{ik} + j_{sa}^{ik} - s - lk - j_{sa}^{lk})!}{(n_{ik} + j_s + j_{sa}^{ik} - n - lk - j_{sa}^{lk})! \cdot (n + j_s - j_s - s)!} \frac{(l_s - l - lk)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s = D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq l \wedge$$

$$l_s - j_{sa}^{lk} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq l_s + 1 - n - 1 \wedge$$

$$D \geq n < n \wedge l = lk = 1 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: (j_{sa}^s) \wedge$$

$$s \geq 2 \wedge s \neq 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(n_i-j_s+1)} \sum_{n_i=n}^{(n_{is}=n-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(n - l_i)!}{(n - l_i - 1)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - j_{sa}^{ik} + 2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{j_{sa}+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i}$$

$$\sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1} \sum_{j_i=j_s+s-1}$$

GÜLDENWA

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{()}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^s)! \cdot (n + j_s - j_s - s)!}$$

$$\frac{(l - l - 1)!}{(l_s - j_s - l + 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l + l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + l_{sa} - j_{sa} > l_{ik} + j_{sa} - l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = 0 \wedge$$

$$j_s \leq j_{sa}^i - 1$$

$$s: \{j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - l - j_s - 2)} \sum_{n_{sa}+n_{sa}+1}^{n_{sa}+n_{sa}+1} \sum_{j_s+s-1}^{j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik} \mid n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$((D > n < n \wedge l_i \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$l_s - s + 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n \wedge l_i \neq i \wedge l_s \leq D - n + 1 \wedge$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \vee)$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$j_{sa}^{DOST} = \sum_{k=l}^{i-s+1} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = 2)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = l_s + s - l + 1}$$

$$\sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{s = n - j_i + 1}^{n_{is} + j_s}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - 1)! + 1!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i)}$$

$$\frac{(n_s - j_i - n - 1)!}{(n_s - j_i - n - 1 - j_i)!}$$

$$\frac{(n - 1)!}{(n - j_s - 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l - i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{()} \sum_{(j_s = j_i - s + 1)}^{l_s + s - l} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}$$

$$\sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$D \geq n < n \wedge l = i \wedge l_s = 0 \wedge$$

$$j_{sa}^s \leq j_i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\}$$

$$s \geq j_{sa}^s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n} \sum_{(n_i=n-j_s+1)}^{n_i+j_s-j_i} \sum_{(n_s=n-j_i+1)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(n - l_i)!}{(n - j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{\Delta} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{\Delta} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

$$\sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{\Delta} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{\Delta}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_s - j_s - s)!}$$

$$\frac{(l - l - 1)!}{(l_s - j_s - l - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_{sa} + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$\left((D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

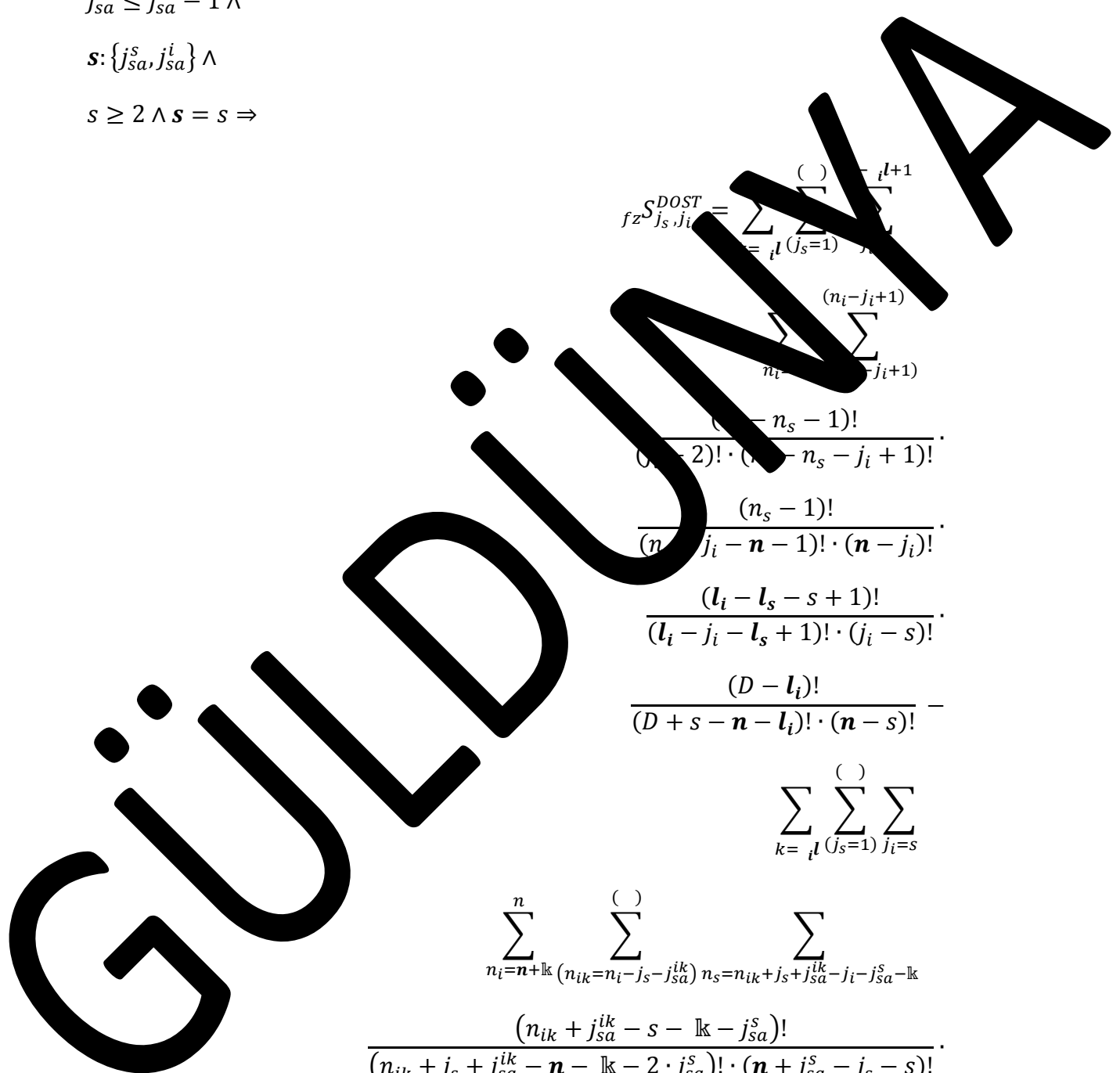
$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{l=i}^{()} \sum_{j_s=1}^{l+1} \sum_{j_i=1}^{(n_i-j_i+1)} \frac{(n_s-1)!}{(n_s-2)! \cdot (n_s-j_i+1)!} \cdot \frac{(n_s-1)!}{(n_s-j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_i-l_s-s+1)!}{(l_i-j_i-l_s+1)! \cdot (j_i-s)!} \cdot \frac{(D-l_i)!}{(D+s-n-l_i)! \cdot (n-s)!}$$

$$\sum_{k=i}^n \sum_{j_s=1}^{()} \sum_{j_i=s}^{()} \sum_{n_i=n+\mathbb{k}}^{(n_{ik}=n_i-j_s-j_{sa}^{ik})} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(D-l_i)!}{(D+s-n-l_i)! \cdot (n-s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$



$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(l_{ik}+s-l-j_{sa}^{ik})}^{(j_i-s+1)} \sum_{(n_i+n+k)}^{(n_i+n+k)} \sum_{(n_{is}+j_s-j_i-k)}^{(n_{is}+j_s-j_i-k)} \sum_{(n_s=n-j_i+1)}^{(n_s=n-j_i+1)}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_i=l_{ik}+s-l-j_{sa}^{ik}+2)}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{\mathbb{k}=l}^{()} \sum_{(j_s=j_i-\mathbb{k}-1)}^{()} \sum_{j_i=l_i+n-D}^{j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{\mathbb{k}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$l_s - l - 1 \geq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_i-l+1} \sum_{=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_i+1)} \sum_{n_s=n-j_i+1}^{n_{is}-j_i-\mathbb{k}}$$

$$\frac{(n_i - j_i - 1)!}{(j_i - 2)! \cdot (n_i - j_i - j_s + 1)!} \cdot \frac{(n_s - 1)!}{(j_s + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l_{ik} + 2)} \sum_{(j_s = l_i - l_s + 1) \cdot (j_i = j_s + 1)} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n_{is} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{is} = n_{is} + j_{sa}^s - j_{sa}^{ik})} \sum_{(n_{is} = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{()} \frac{(n_{ik} + j_s + j_{sa}^{ik} - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge 2 \leq j_i - s \wedge j_s + s \leq j_i \wedge n \wedge (j_i - 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge j_{sa}^s = j_{sa}^l - 1 \wedge s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{SDOST} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{j_i=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i-1)!}{(j_s-2)! \cdot (n_i-n_{is}+1)!} \cdot \frac{(n_{is}-1)!}{(j_i-1)! \cdot (n_{is}-n_s-j_i)!} \cdot \frac{(n_s)}{(n_s+j_s-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \sum_{k=l} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \frac{\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\quad)}}{(n_{ik}+j_s+j_{sa}^{ik}-n-\mathbb{k}-2 \cdot j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$S_{l_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=n-D)}^{(n-D)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-l} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{j_i=l_s+s-l+1}^{n_{is}+j_s-j_i-k} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i-k}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i - j_s)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(\quad)} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-l} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\quad)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(\quad)} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^n \sum_{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{(l_{ik}+n-D-j_{sa}^{ik}+1, l_{ik}+s-l-j_{sa}^{ik}+1)} \sum_{j_i=j_s+s-1}^{n, n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^n \sum_{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D - n - 1)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{(l_s - l + 1)} \sum_{i_k = l_{ik} + n_{is} - j_{sa}^{ik} + 1}^{j_i = j_s + s - 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{i_k = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 - j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\ & (D \geq n < n \wedge l_s > D - n + 1 \wedge \end{aligned}$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz^{POST} = \sum_{k=l}^{(j_i-s+1)} \sum_{j_s=l_s+n-D}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{l_s+s-l}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

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$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n} \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{(n_i-j_s+1)} \\
 & \frac{(n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k}^{()}
 \end{aligned}$$

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$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$s: \{j_{sa}^i, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
&\frac{(n_{i_s} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - l - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
&\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{(l_s-l+1)} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
&\sum_{n_{ik}=n_{i_s}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-l_k)}^{(n_i-j_s+1)} \\
&\frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l, n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{(l_{sa}+s-l-j_{sa})}^{n-D} \sum_{(n_i=n+l_k)}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{n_i-j_s-j_i-k} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_i=l_{sa}+s-l-j_{sa}+2)}^{l_i-l+1} \sum_{(n_i=n+l_k)}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i-k}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{j_s+1} \sum_{j_s=j_i-1}^{(j_s-j_i-1)} \sum_{j_i=l_i+n-D}^{n} \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{k=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$l_s > j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j+1)} \sum_{n_s=n-j_i+1}^{n_{is}-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(n_{is} + j_s - n_s - j_i)!} \cdot \frac{(j_i - n_{is} - 1)!}{(n_s - 1)!} \cdot \frac{(n_s - 1)!}{(j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

GÜLDENMAYR

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l_s+2)} \sum_{(j_s=l_i, \dots, D-s+1)} \sum_{j_i=j_s+1}^n \sum_{n_i=n+k}^n \sum_{(n_{is}, \dots, j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{ik}, \dots, j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{is}+j_{sa}^s-j_{sa}^{lk})}^{(n_{ik}+j_s+j_{sa}^{lk}-j_i-j_{sa}^{lk})} \sum_{(n_{ik}+j_s+j_{sa}^{lk}-s-j_{sa}^s)}^{(n_{ik}+j_s+j_{sa}^{lk}-s-j_{sa}^s)} \frac{(n_{ik}+j_s+j_{sa}^{lk}-s-j_{sa}^s)!}{(n_{ik}+j_s+j_{sa}^{lk}-n-k-2 \cdot j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - 1 - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_i - s \wedge$$

$$j_s + s \leq j_i - n \wedge$$

$$l_{ik} - 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$s = 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{j_i=n-j_i+1}^{n_{is}+j_s-j_i} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - j_s + 1)!} \cdot \frac{(n_{is} - 1)!}{(j_i - 1)! \cdot (n_{is} - j_s - n_s - j_i)} \\
 &\frac{(n_s + 1 - n - 1)! \cdot (n - j_i)!}{(l_s - l - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
 &\frac{(l_s - l_s + 1)!}{(j_s + 1 - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \\
 &\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{(l_{sa}-l-j_{sa}+2)} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
 &\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \\
 &\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}
 \end{aligned}$$

GÜLDENWA

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DG} = \sum_{l=1}^{j_s-1} \sum_{j_s=l_{ik}+n-D}^{j_s-1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{lk}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

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$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{j_s=l_{ik}+1}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)}$$

GÜLDÜŞMÜŞA

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{l_i - j_{sa} - 1} \sum_{j_i = j_s + s - 1}^{n - l_{sa} + n - j_{sa} + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{\mathbb{k} = n_{is} + j_{sa} - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{()} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D - n + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-j_{sa}+1} \sum_{(n_i=n_{is}+n+\mathbb{k}-j_s)}^n \sum_{(n_s=n-j_i+1)}^{n_{is}} \frac{(n_i)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(j_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

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$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$((D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$

$D \geq n < n \wedge I = 0 \geq 0 \wedge$

$j_{sa}^s = j_s - 1 \wedge$

$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\}$

$s = 1 \wedge \mathbb{k} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 =$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+k-D)}^{j_{sa}+1} \sum_{j_i=l_s+s-l+1}^{n_{is}+j_s-j_i-k}$$

$$\sum_{n+l-k}^n \sum_{n+l-k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{()}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_s - j_s - s)!}$$

$$\frac{(l - l - 1)!}{(l_s - j_s - l - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$((D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$

$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$

$j_{sa}^s = j_{sa}^l - 1 \wedge$

$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$

$s = 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\begin{aligned}
f_{zS}^{DOST}_{j_s, j_i} &= \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s - l - 1)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = n + k}^n \sum_{(n_{is} + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{ik} + j_s + j_{sa}^{ik} - k)}^{(n_{ik} + j_s + j_{sa}^{ik} - k)} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_s - 1)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - j_s - 1)! \cdot (n + j_s - j_s - s)!} \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$((D \geq n < n \wedge l_s > D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i - n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i - n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s \wedge$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_s-l-1)} \sum_{j_i=l_s+n-D}^{l_s+s-1} \sum_{j_s=j_s+n+s-D-j_{sa}}^{l_s+s-1} \frac{(n_i - j_s - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s-l-1)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq D + s - n \wedge$

$D \geq n < n \wedge l = k \geq 0 \wedge$

$j_{sa}^s = j_{sa}^i - 1 \wedge$

$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$

$s = 2 \wedge s = s + 1$

$k = z = 1 \Rightarrow$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=s+1}^1 \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$



$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l - l + 1} \sum_{j_i=l_{ik}+s}^{j_{sa}^{ik}+2} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-1)}^{(j_s+1)} \sum_{n_s=n-j_i+1}^{j_i-l_k} \\
 & \frac{(n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - 1)!} \cdot \\
 & \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=s+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-l_k)}^{()}
 \end{aligned}$$

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$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_i \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_i - l + 1} \sum_{j_i=j_s+s-1}^{n_{is} + j_s - j_i - \mathbb{k}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{n_{is} + j_s - j_i - \mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}+k-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i-k)}^{(n_{ik}+j_{sa}^{ik}-k-j_s+1)} \frac{(n_{ik} + j_{sa}^{ik} - k - j_s + 1)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - j_s + 1)! \cdot (n + j_s - j_s - s)!} \frac{(l_s - l - k)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq l \wedge l_s \wedge D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq l \wedge$$

$$l_s - j_{sa}^{ik} + 1 \leq l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq l_s + 1 \wedge$$

$$D \geq n < n \wedge l = k \geq 1 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}, l_{sa}^{j_i}\} \wedge$$

$$s = 2 \wedge s = j_s + k \wedge$$

$$k_z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s - l + 1)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=2}^{(l_{ik} - j_{s\bar{a}}^{ik} + 2)} \sum_{j_i=l_{ik}+s-l-j_{s\bar{a}}^{ik}+2}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik}-l_k)}^{()} \frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^{ik})}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^{ik})} \cdot \frac{(n + j_{sa}^{ik} - j_{sa}^{ik} - s)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_i \wedge l_i + j_{sa}^{ik} - j_{sa}^{ik} = l_{ik} \wedge$$

$$D + n < l_i \leq l_s + s - n - 1 \wedge$$

$$D < n < n \wedge l_k \geq 0$$

$$j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge$$

$$\{j_{sa}^{ik}, l_k\} \wedge$$

$$s = 2 \wedge s = s$$

$$l_k \cdot z = 1$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(n - l_i)!}{(n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{l_i - l - j_s^a} \sum_{j_s=l_i+n-D-s+1}^{j_s+l_i+n-D-s+1} \sum_{j_i=j_s+s-1}^{j_i+l+1}$$

$$\sum_{n_i=l}^n \sum_{n_{is}=n+l_k-j_s+1}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_i - l - j_s^a + 2)} \sum_{j_s=l_i+n-D-s+1}^{j_s+l_i+n-D-s+1} \sum_{j_i=j_s+s-1}^{j_i+l+1}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_s - j_s - s)!}$$

$$\frac{(l - l - 1)!}{(l_s - j_s - l - 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_s < s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = i \wedge l_s \geq 0 \wedge$$

$$j_s = j_{sa}^i - 1 \wedge$$

$$s: \{ \mathbb{k}, j_{sa}^i \} \wedge$$

$$l = 2 \wedge l_s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

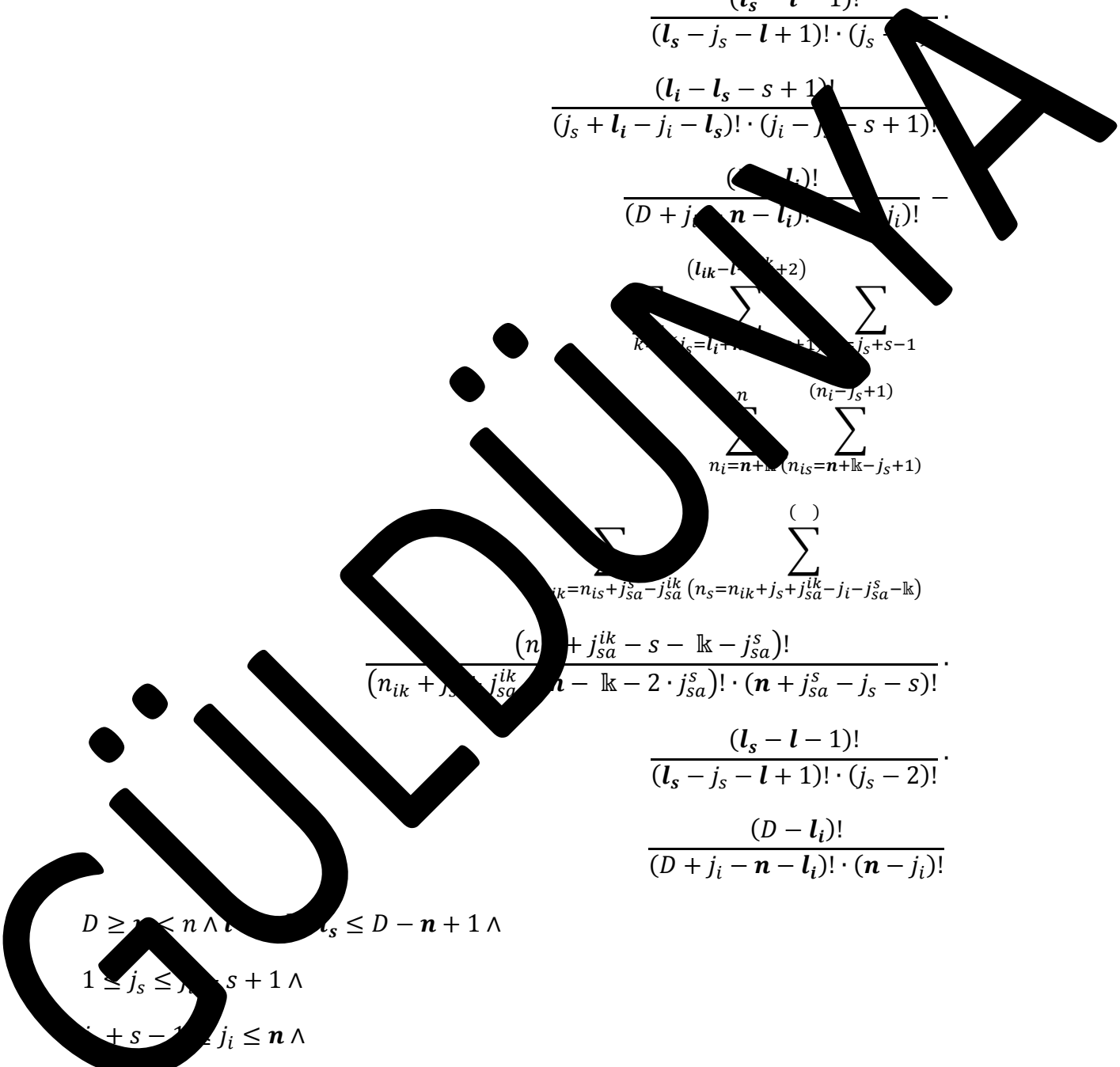
$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \cdot \sum_{k=0}^{(l_{ik} - l_{jsa}^k + 2)} \sum_{i_s=l_i+1}^{i_s+l_s-1} \sum_{j_s=s-1}^{j_s+s-1} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{i_k=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}^{(n_i-j_s+1)} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_i \leq D - n + 1 \wedge 1 \leq j_s \leq j_s + s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge D + s - n < l_i \leq D + l_s + s - n - 1 \wedge D \geq n < n \wedge I = k \geq 0 \wedge j_{sa}^s = j_{sa}^i - 1 \wedge$$



$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_s}^{l_s+s-l}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n-k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i + l_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-l+1}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{ik}+n+l_s-l}^{l_s+s-l} \sum_{n_i=n}^{n} \sum_{n_{is}=n+l_k-j_s+1}^{n} \sum_{n_{ik}=n_{is}-j_{sa}^{ik} (n_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - l_k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D > n < n \wedge l \neq i \wedge l_s < D - n + 1 \wedge$

$1 \leq i \leq j_i - s + 1$

$i + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 \leq l \leq l_s \wedge l_{sa}^{ik} - s = l_{ik} \wedge$

$D - s - 1 \leq l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n, l = l_k \geq 0 \wedge$

$j_{sa}^s - j_{sa} - 1 \wedge$

$s: \{j_{sa}^s, l_k, j_{sa}^i\} \wedge$

$s = 2 \wedge s = s + l_k \wedge$

$l_k: z = 1 \Rightarrow$

$$\begin{aligned}
 f_{j_s, j_i}^{S_{DOST}} = & \sum_{k=l}^{(l_{ik}+n-D-j_s^{ik})} \sum_{(j_s=2)}^{l_{ik}+s-l-j_s^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_s^{ik}}^{n_{ik}+s-l-j_s^{ik}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_s^{ik}+1)}^{l_{ik}+s-l-j_s^{ik}+1} \sum_{j_i=j_s+s-1}^{n_{ik}+s-l-j_s^{ik}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)} \sum_{j_i = j_s + s - 1} \sum_{n_i = n + k}^n \sum_{(n_{is} = n_{ik} + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} + j_s + j_{sa}^{ik} - j_i - k)}^{(n_{ik} + j_s + j_{sa}^{ik} - s - k - j_{sa}^{ik})} \frac{(n_{ik} + j_s + j_{sa}^{ik} - n - k + j_{sa}^{ik})!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k)! \cdot (n + j_{sa}^{ik} - j_i - j_s - s)!} \frac{(l_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} + j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} \leq n - l_{ik} \wedge$

$D + s - n < l_i \leq D + j_s + s - n - 1 \wedge$

$D \geq n < n \wedge k \geq 1 \wedge$

$j_{sa}^s \leq j_{sa}^{ik} + 1 \wedge$

$s: \{j_{sa}^s, k, j_i\} \wedge$

$s = z \wedge s = s + k \wedge$

$k_z: z = 1 \Rightarrow$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = 2)}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{j_i = l_{ik} + n + s - D - j_{sa}^{ik}}$$

$$\begin{aligned}
 & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_s - s - 1)!}{(j_s + l_i - n - l_s - j_i - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=1}^{(l_s - l + 1)} \sum_{(i_{ik} + n - D - j_{sa}^{ik} + 1)} \sum_{j_i = j_s + s - 1}^n \\
 & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \\
 & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_i - j_s + 1)} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{(n_i - j_s + 1)} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$s \cdot \{j_{sa}^i, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}^{n_i} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
&\frac{(n_{i_s} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{n_i} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
&\frac{(n_{i_s} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \sum_{k=l}^{()} \sum_{(j_s=j_{i-s+1})}^{l_s+s-l} \sum_{j_i=s+1}^{l_s+s-l} \sum_{n_i=n+k}^n \sum_{(n_{i-s}+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-k)}^{()} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_s - 1)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - j_s - 1)! \cdot (n + j_s - j_s - s)!} \cdot \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l \neq i \wedge l \leq D - n + 1 \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge \\ & l_i \leq D + s - n) \vee \\ & ((D \geq n < n \wedge l \neq i \wedge l \leq D - n + 1 \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge \\ & l_{ik} \leq D + j_{sa}^{ik} - n) \vee \\ & ((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \end{aligned}$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1} (n_{i=n+l_k} \sum_{(n_{i_s=n+l_k-j_s+1})}^{(n_i-j_s+1)})$$

$$\sum_{n_{ik=n_{i_s}+j_{sa}^s-j_{sa}^{ik}} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)} \sum_{()} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s) \cdot (n + j_{sa}^s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - l + 1) \cdot (j_s - 2)!} \cdot \frac{(D - l_i)}{(D + j_{sa}^s - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge 1 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1 \vee (D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge 1 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee (D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge 1 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \right)$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOS} \sum_{k=l}^{s+1} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{l_s+s-l} \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{(n_{is}=n+k-j_s+1)}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
 & \frac{(n_{i_s} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{i_s}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-l_k)}^{()} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^s - j_{sa}^{i-1} \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^{i-1}\} \wedge$$

$$s - j_{sa}^{i-1} = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{(l_s-l+1)} \sum_{i=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_s=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_s+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{(n_i-j_s+1)} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s) \cdot (n + j_{sa}^s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^s + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^s + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1))$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s - s}^{(j_s + 1)} \sum_{n_i = n}^n \sum_{n_{ik} = n_{is} + j_{sa} - s - j_{sa}^k - j_i - j_{sa}^{s-k}}^{(j_s + 1)} \frac{(n_{ik} + j_s + j_{sa}^{ik} - n - 2 \cdot j_{sa}^s) \cdot (n + j_{sa}^s - j_s - s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - 2 \cdot j_{sa}^s) \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - s + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i < n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge n + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - 1 < l_i \leq D + j_i + s - n - 1 \wedge$$

$$D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - s + 1 \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$\{j_{sa}^s, l_{sa}^s\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1) l_{sa}+s-l-j_{sa}+1} \sum_{(j_s=2)} \sum_{j_i=l_i+n-D} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{l_i-l+1} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_{is}+k-j_s+1)}^{(n_{ik}+j_s+j_{sa}^{ik}-k)} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_s - 1)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - j_s - 1)! \cdot (n + j_s - j_s - s)!} \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq -n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \wedge$$

$$l_s - j_{sa}^{ik} + \dots = l_s \wedge l_{sa}^{ik} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq \dots + l_s + \dots = n - 1 \wedge$$

$$D \geq n < n \wedge l = k \geq \wedge$$

$$j_{sa}^s = j_{sa}^i - \wedge$$

$$s: \{ \dots \} \wedge$$

$$s = 2 \wedge s = \dots + k \wedge$$

$$k_2 \dots \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{l_{sa}-l-j_{sa}+2} \sum_{j_i=l_i+n-D-s+1}^{l_{sa}-l-j_{sa}+2} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{(n_i-j_s+1)} \frac{(n_{ik}+j_{sa}^{ik}-s-k-j_{sa}^s)}{(n_{ik}+j_s+j_{sa}^{ik}-n-k-2 \cdot j_{sa}^s) \cdot (n+j_{sa}^s-s)!} \cdot \frac{(l_s-l-1)!}{(l_s-l+1) \cdot (j_s-2)!} \cdot \frac{(D-j_s)}{(D+j_s-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$D + l_s + s - n - l_i + 1 \leq l_s$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s + j_{sa}^{ik} - j_{sa}^s = l_s + j_{sa}^s - s > l_{sa} \wedge$$

$$D - s - n < l_s \leq D + l_s - s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$l_{sa} = j_{sa}^s - 1 \wedge$$

$$s: \{j_s^s, k, j_{sa}^i\}$$

$$s = 2 \wedge s = s + k \wedge$$

$$k; z = 1$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(j_s + l_i - l - l_s - s + 1)!}{(j_s + l_i - l - l_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=1}^{l_s - l - j_{sa} + 2} \sum_{i=l_i+n-D-s+1}^{l_i+n-D-s+1} \sum_{j_i=j_s+s-1}^{j_i=j_s+s-1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{(n_{ik} + j_{sa}^s - s - \mathbb{k} - j_{sa}^s)!} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_{ik} + j_{sa}^s - s - \mathbb{k} - j_{sa}^s)!} \\
 & \frac{(n_{ik} + j_{sa}^s - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{DOST} = \sum_{l=1}^{(j_i+1)} \sum_{(j_s=2)}^{l_{ik}+1} \sum_{j_i+l_s+n+s-D-j_{sa}}^{1} \\ \sum_{j_i+k}^n \sum_{(n_{is}=k-j_s+1)}^{(n_{is}-1)} \sum_{n_s=n-j_i+1}^{+j_s-j_i-k} \\ \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\ \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\ \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\ \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2} \\ \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D - n - 1)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{\infty} \sum_{l_i = j_i - s + 1}^{\infty} \sum_{l_s = l_s + n + s - D - j_{sa}}^{\infty} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{k = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{()} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 - j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-\mathbb{k})}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^k+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-\mathbb{k})}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - s)} \sum_{j_s=l_{sa}+n_{ik}-j_{sa}+1}^{j_s+1} \sum_{j_i=j_s+1}^n \sum_{n_i=n+k}^n \sum_{n_{is}=n_{is}-j_s+1}^{(n_i - j_s + 1)} \sum_{n_{is}=n_{is}-j_{sa}-j_{sa}^{ik}}^{()} \sum_{n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}^{()} \frac{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}{(l_s - l - 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq l_s < n \wedge l \neq j_i \wedge l \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq j_i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \wedge n \wedge$$

$$l_{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_s}^{n} \sum_{n_i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{+j_s-j_i-\mathbb{k}} \frac{(n_{is}-1)!}{(j_s-2)! \cdot (n_{is}-j_s+1)!} \cdot \frac{(n_{is}-1)!}{(n_{is}-j_i)!} \cdot \frac{(n_s-1)!}{(n+j_i-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \cdot \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1}^n \sum_{n_i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_{is}-j_s+1)} \frac{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_s+j_{sa}^{ik}-n-\mathbb{k}-2 \cdot j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} \geq 1 \wedge$$

$$j_{sa}^s = i_{sa} - 1) \wedge$$

$$s: (j_{sa}^s, \mathbb{k}, j_{sa}^s) \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{(j_s=2)}^{(l_s-l+1)} \sum_{j_i=l_s+s-l+1}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s) \cdot (n + j_{sa}^s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - l + 1) \cdot (j_s - 2)!} \cdot \frac{(D - n + 1)}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1) \vee$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n \leq l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1) \vee$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n \leq l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=z)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-j_{sa}}^{n} \frac{(n_i-j_s)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot \frac{(n_{is}+j_s-j_i)!}{(n_{is}-n_s-1)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^n \frac{(n_i-j_s+1)!}{(n_{is}+n+k-j_s+1)!} \cdot \frac{(n_{is}+j_s-j_i-k)!}{(n_s-n-j_i+1)!} \cdot \frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + 1$$

$$k = z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{j_s+s-1} \sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_{is}=n+k-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}=n_{is}+j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})} \frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^{ik})!}{(n_{ik} + j_s + j_{sa}^{ik} - s - l_k - 2 \cdot j_{sa}^{ik})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge 1 \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge l_i \leq D + j_{sa}^{ik} - n) \vee (D \geq n < n \wedge l = l_i \wedge l_s \leq D - n + 1 \wedge 1 \leq j_s \leq j_i - s + 1 \wedge j_s + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = \mathbb{k} + 1 \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=0}^n \sum_{(j_s=1)}^{\binom{\cdot}{j_s}} \sum_{j_i=s}^{l_i - i^{l+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)}$$

$$\frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$\sum_{k=1}^n \sum_{(j_s=1)}^{()} \sum_{j_i=1}^{()} \dots \sum_{n_i=n+k}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{()} \sum_{n_s=n_{ik}+j_s-j_{sa}^{ik}-j_{sa}^s-k}^{()} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - j_{sa}^s)! \cdot (n_{ik} + j_{sa}^s - j_s - s)!} \cdot \frac{(D - n - l_i)! \cdot (n - s)!}{(D - n - l_i)! \cdot (n - s)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - j_{sa}^s > l_{ik} \wedge$

$D \geq n < n \wedge l_i - j_{sa}^{ik} > 0 \wedge$

$j_{sa}^{ik} = j_{sa}^s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \cup \{j_{sa}^s, \dots, j_{sa}^{ik}, j_{sa}^s\} \wedge$

$s > 2 \wedge s = s + k \wedge$

$k_z: z = 1 \dots$

$$fz^{S_{j_s, j_i}^{DOST}} = \sum_{k=1}^n \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{l_i!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=1}^{(l_i - l - j_s^{ik} + 2)} \sum_{j_s = l_{ik} + 1}^{n - j_s^{ik} + 1} \sum_{n_i = n + k}^{n + k - j_s + 1} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - k} \frac{l_i - l + 1}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{j_s = j_i - s + 1}^{l_{ik} + s - l - j_s^{ik} + 1} \sum_{j_i = l_i + n - D}$$

$$\sum_{n_i = n + k}^n \sum_{n_{is} = n + k - j_s + 1}^{(n_i - j_s + 1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$

$s > 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$fz^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$



$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)}^{l_i - l + 1} \sum_{j_i = j_s + s - 1}^{n - j_s + 1} \\
 & \sum_{n_i = n + lk}^n \sum_{(n_{is} = n + lk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{j_i - lk} \\
 & \frac{(j_s - 1)! \cdot (n_i - n_{is} - s + 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - lk - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - lk)!} \cdot \\
 & \frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)}^{l_i - l + 1} \sum_{j_i = j_s + s - 1}^{n - j_s + 1} \\
 & \sum_{n_i = n + lk}^n \sum_{(n_{is} = n + lk - j_s + 1)}^{(n_i - j_s + 1)} \\
 & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - lk)}^{(n_i - j_s + 1)}
 \end{aligned}$$

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$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i - l_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$

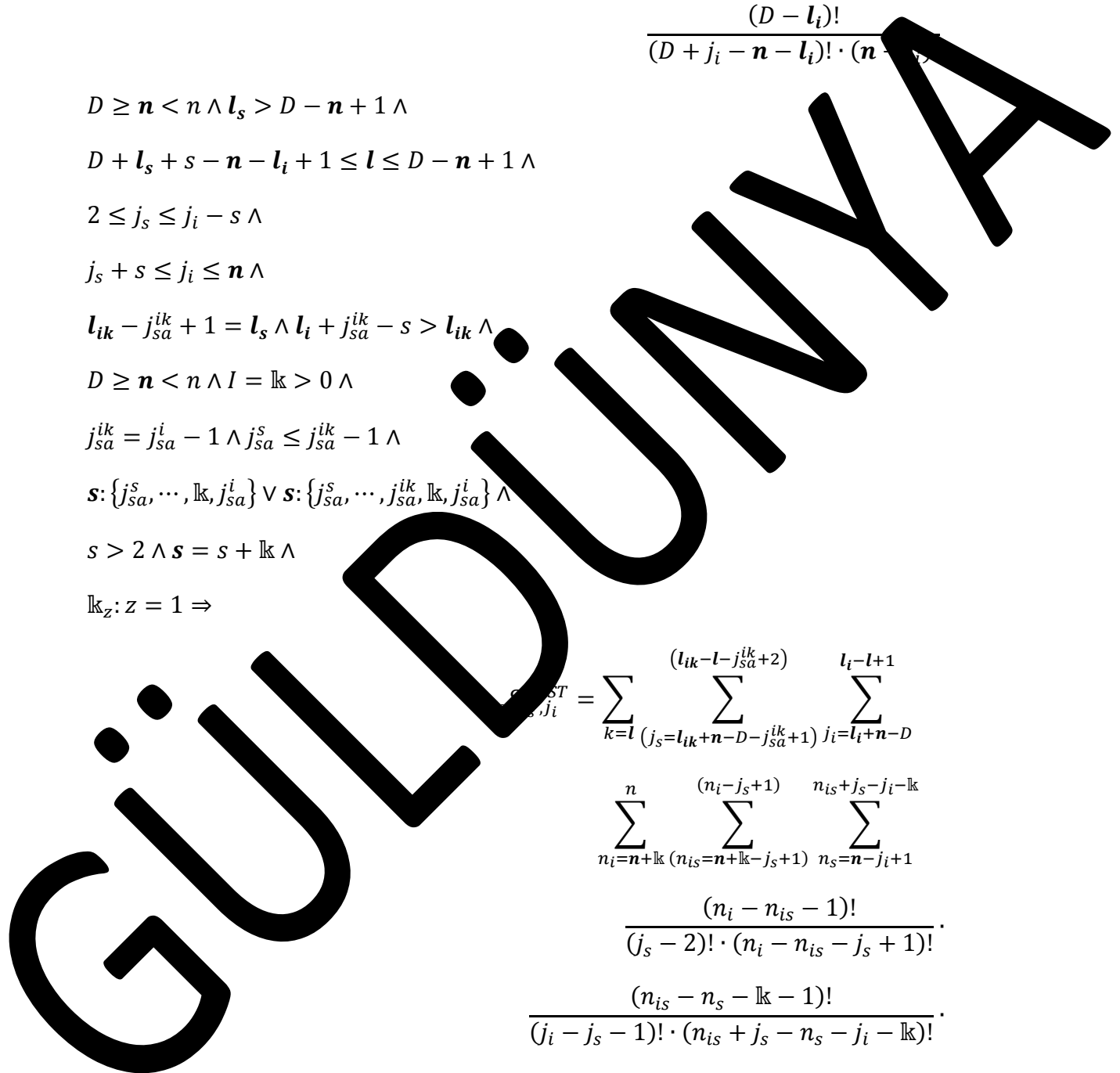
$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s > 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\sum_{k=l}^{n_{ik} - l - j_{sa}^{ik} + 2} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)}^{l_i - l + 1} \sum_{j_i = l_i + n - D}^{l_i - l + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$



$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}^{(j_s + 1)} \sum_{n_i = n + j_s + 1}^{(n + j_s + 1)} \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_i - j_{sa}^{ik} - \mathbb{k}} \sum_{(n_{ik} + j_s + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!} \frac{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}{(l_s - l - 1)!} \cdot \frac{(D - l_i)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i - n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} = j_i - 1 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$2 \wedge j_s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l} \sum_{(j_s = l_s + n - D)}^{(j_i - s + 1)} \sum_{j_i = l_{ik} + n + s - D - j_{sa}^{ik}}^{l_s + s - l}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=0}^{(l_s-l+1)} \sum_{s=l_s+n-D}^{l_{ik}+s-l-j_{s\bar{a}}^k+1} \sum_{j_i=l_s+s-l+1}^{l_{ik}+s-l-j_{s\bar{a}}^k+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik}-l_k)}^{()}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa})}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^{ik})} \cdot \frac{(n + j_{sa}^{ik} - j_{sa}^{ik} - s)!}{(l_s - 1)!} \cdot \frac{(l_s - 1)!}{(j_s - 2)!} \cdot \frac{(D - l_k)}{(D + j_s - n - l_k)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - j_{sa}^{ik} = l_{ik} \wedge$$

$$D \geq n < n \wedge I = l_{ik} = 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1, j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{ \dots, l_k, j_{sa}^i \} \vee \{ j_{sa}^s, \dots, j_{sa}^{ik}, j_{sa}^i \} \wedge$$

$$> 2 \wedge s = s + l_k \wedge$$

$$l_{k_z}: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_s+n-D)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 1)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{l_i!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_s^k+1)}^{(l_{ik}+s-l-j_s^k+1)} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+l_{ik}}^n \sum_{n_{is}=n+l_{ik}-j_s+1}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_s^k+1)}^{(l_{ik}+s-l-j_s^k+1)} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+l_{ik}}^n \sum_{(n_{is}=n+l_{ik}-j_s+1)}^{(n_i-j_s+1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

- $((D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$
- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$
- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$
- $D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $j_{sa}^{ik} = j_{sa}^{l_{ik}} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$
- $s: \{j_{sa}^s, \dots, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$
- $s > 2 \wedge s = s + \mathbb{k} \wedge$
- $\mathbb{k}_z: z = 1 \Rightarrow$

$$fz_{j_s, j_i}^{S^{DOST}} = \sum_{k=l} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-l}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=l_s+n-D}^{(l_s-l+1)} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l}$$

$$\sum_{n_i=n+k}^n \sum_{(n_i=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s) \cdot (n + j_{sa}^s - s)!} \cdot \frac{(l_s - l + 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)}{(D + j_{sa}^s - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^l - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(j_i - j_s - 1)! \cdot (n_{is} + j_s - j_i - \mathbb{k})!}{(j_s - 1)! \cdot (n_{is} + j_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_i+n-D-s+1}^{j_s+s-1} \sum_{n_i=n}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}+1} \sum_{n_{ik}=n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}}^{n_{ik}+j_{sa}^{ik}-s+l_k-j_{sa}^{ik}} \frac{(n_{ik} + j_{sa}^{ik} - s + l_k - j_{sa}^{ik})!}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^{ik})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & (D \geq n < n + 1 \wedge l_s > D - n + 1 \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\ & (D \geq n < n + 1 \wedge l_s > D - n + 1 \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \end{aligned}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{SD} = \sum_{l=1}^{(l_s-l+1)} \sum_{(j_s=l_s-l-D)}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_s - j_s - s)!}$$

$$\frac{(l - l - 1)!}{(l_s - j_s - l - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_i - j_{sa}^s = l_{ik} \wedge l_{sa} - s > \quad \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \cup \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s \cdot 2 \wedge s = \mathbb{k} \wedge$$

$$\mathbb{k}_z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\begin{aligned}
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+k)}^{(l_i-l)} \sum_{(j_i=l_{sa}+s-l-j_s+k)}^{(n-j_s+k)} \\
 & \sum_{n_i=n+k}^{(n_i-j_s+k)} \sum_{(n_i=n+k-j_s+k)}^{(n_i+j_s-j_i-k)} \sum_{j_i+1}^{(n_i+j_s-j_i-k)} \\
 & \frac{(n_s - n_{is} - 1)!}{(j_s - 2)! \cdot (n_s - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^{()} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}
 \end{aligned}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_s+j_{sa}^{ik}-n-\mathbb{k}-2 \cdot j_{sa}^s)! \cdot (n+j_{sa}^s-j_s-s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} \wedge l_i + j_{sa}^{ik} - s > l_{sa}^{ik}$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l_k}$$

$$\frac{(n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}$$

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$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - j_{sa}^{ik} + 1 = l_{ik} + 1$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{j_i}^{j_i} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa} - l - j_{sa} + 2)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}^{(j_s + 1)} \sum_{n_i = n - j_s + 1}^{(n - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_i - j_{sa} - \mathbb{k}}^{(n_{ik} + j_s - j_i - j_{sa} - \mathbb{k})} \frac{(n_{ik} + j_s + j_{sa} - n - 2 \cdot j_{sa})!}{(n_{ik} + j_s + j_{sa} - n - 2 \cdot j_{sa})! \cdot (n + j_{sa} - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} + j_{sa} + 1 = l_s \wedge l_{ik} + j_{sa} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$\geq n < n \wedge l = \mathbb{k} > 0$

$j_{sa}^{ik} = j_{sa}^{i-1} \wedge j_{sa}^{ik} = j_{sa}^{i-1} \wedge$

$S: \{j_{sa}^s, \dots, j_{sa}^i\} \vee S: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$\geq 2 \wedge j_s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i - s + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}^{l_{ik} + s - l - j_{sa}^{ik} + 1}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s - s + 1)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^l \sum_{(n_{is}=n+l_k-j_s+1)}^{(l_{ik}-l_{is}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_{sa}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

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$$\sum_{k=l} \sum_{\binom{()}{j_s=j_i-s+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+l_k}^n \sum_{\binom{()}{n_{is}=n+l_k-j_s+1}}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik}}}^{(n_i-j_s+1)} \frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa})}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^{ik})} \cdot \frac{(n + j_{sa}^{ik} - j_{sa}^{ik} - s)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} > l_{ik} \wedge l_{sa} - j_{sa} - s = l_{sa} \wedge$

$D \geq n < n \wedge I = l_{sa} - 0 \wedge$

$j_{sa}^{ik} = j_{sa}^i - 1, j_{sa}^s \leq j_{sa}^i - 1 \wedge$

$s: \{ \dots, l_k, j_{sa}^i \} \vee \{ j_{sa}^s, \dots, j_{sa}^i, j_{sa}^i \} \wedge$

$> 2 \wedge s = s + l_k \wedge$

$l_{k_z}: z = 1 \Rightarrow$

$$fz^{S_{j_s, j_i}^{DOST}} = \sum_{k=l} \sum_{\binom{()}{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+l_k}^n \sum_{\binom{()}{n_{is}=n+l_k-j_s+1}}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n-j_s+1} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}+j_s-j_i-k} \sum_{n_s=n-j_i+1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n-j_s+1}$$

$$\sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}}} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_i + j_{sa} - s \wedge l_{sa} \wedge$

$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s > 2 \wedge s = s + 1 \wedge$

$\mathbb{k} : z = 1 \Rightarrow$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{(j_i=l_{sa}+n+s-D-j_{sa})}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - l - j_{sa} + 1)}^{(j_i - j_s + s - 1)} \sum_{n_i = n - l - j_{sa} + 1}^{n} \sum_{n_{is} = n + l_k - j_s + 1}^{(n - j_s + s - 1)} \frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - l_k - 2 \cdot j_s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$
- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$
- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_k \sum_{l_s+n-D}^{(j_i-s)} \sum_{j_i+n+s-D-j_{sa}}^{l_s+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i=n+\mathbb{k}-j_s+1)}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s+s-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{\binom{n}{n_i - n_{is} + j_s - 1}} \sum_{\substack{\Delta \\ n_{is} = j_i - s + k \\ l_{sa} = n + s - D - j_{sa}}} \sum_{n_i = n + \mathbb{k}}^n \sum_{n_{is} = n + \mathbb{k} - j_s + 1}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{\substack{(\cdot) \\ n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k}}} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$l_s - j_s - 1 \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa})) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} & \sum_{k=1}^{(l_{sa}+n-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\ & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \\ & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\ & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\ & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \\ & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \end{aligned}$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - k - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{(l_s-l-1)} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^i, \dots, \mathbb{k}, j_i\} \vee s: \{j_{sa}^i, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + 1$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{SDOST}_{j_s, j_i} = \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_s+n-D}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{l_s - l} \sum_{j_s=l_{sa}+k}^{j_s+l_{sa}+1} \sum_{j_i=j_s+1}^{n - (j_s+1)} \sum_{n_i=n+k}^n \sum_{n_{i-1}=j_s+1}^{(n_i - j_s + 1)} \sum_{n_{i-2}=j_s+1}^{(n_{i-1} - j_s + 1)} \dots \sum_{n_{i-k}=j_s+1}^{(n_{i-k-1} - j_s + 1)} \frac{(n_{ik} + j_{ik} - s - l_{ik} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i, l \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_s + 1 \wedge$$

$$j_s + 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i - j_{sa}^{ik} - n \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$s > 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l} \sum_{(j_s=2)}^{(j_i-s+1) l_{ik+s-l-j_{s\alpha}^{ik}+1}} \sum_{j_i=s+1} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s + j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_s - l - s + 1)!}{(j_s + j_i - l - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l} \sum_{(j_s=2)}^{(l_{ik-l-j_{s\alpha}^{ik}+2})} \sum_{j_i=l_{ik+s-l-j_{s\alpha}^{ik}+2}}^{l_i-l+1} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}
 \end{aligned}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{\binom{D}{j_s}} \sum_{(j_s=j_i-s+1)}^{l_{ik}+l-j_{sa}^{ik}+1} \sum_{j_i=l+1}^{n-j_i} \sum_{n_i=n}^n \sum_{n_{is}=n+l_k-j_s+1}^{n-j_i} \frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - l_k - 2 \cdot j_s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D > n < n \wedge l < l \wedge l_i < D - n + 1 \wedge 1 \leq j_i \leq j_i - s + 1 \wedge j_i + s - 1 \leq j_i \leq n \wedge l_{ik} - j_{sa}^{ik} + 1 < l \wedge l_{ik} - j_{sa}^{ik} - s > l_{ik} \wedge D > n < n \wedge l = l_k > 0 \wedge j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge s: \{j_{sa}^s, \dots, l_k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, l_k, j_{sa}^i\} \wedge s > 2 \wedge s = s + l_k \wedge l_{k_z}: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - l_k)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - j_s - l + 1)!}{(j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 &\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 &\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(\quad)} \\
 &\frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$j_{sa}^{ik} = \sum_{k=1}^{s+1} \sum_{l=2}^{s-l-j_{sa}^{ik}+1} \sum_{j_i=l_i+n-D}^{n} \sum_{n_i=n+k}^{n} \sum_{n_s=n+k-j_s+1}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(n_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_i-l+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l - l_s - s - 1)!}{(j_s + l_i - l - l_s - j_i - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{l_i=j_s+1}^{()} \sum_{j_s=j_i-s+1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_i+n-D}^{()} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s+1)} \sum_{(j_s=0)}^{(l_i+n-D-s+1)} \sum_{j_i=l_i+n-D-s+1}^{(l_i+n-D-s+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_i+j_s-j_i-\mathbb{k})} \frac{(n_i - n_s - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_i-l+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_{is}+j_s-j_i-\mathbb{k})} \sum_{n_s=n-j_i+1}^n$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{i=1}^n \sum_{j_s=l_i+1}^{n-s+1} \sum_{j_i=j_s+s-1}^{n-j_s+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$

$2 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=2}^{l+1} \sum_{j_i=n-D}^{l+1} \frac{(n_i-j_s) \dots (n_i+j_s-j_i)}{(n_i+n+\mathbb{k}) \dots (n_i-j_i+1)} \frac{(n_i-1)!}{(j_i-2)! \cdot (n_i-j_s+1)!} \cdot \frac{(n_s-\mathbb{k}-1)!}{(j_i-j_s-1)! \cdot (n_i+j_s-n_s-j_i-\mathbb{k})!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_i+n-D-s+1}^{n} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i - l_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-l} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\ \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \\ \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\ \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-l+1}^{n_i-j_s+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k)}^{(n_i-j_s+1)} \sum_{n_s=j_i+1}^{n_i+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_i - n_{is} - l_k - 1)!}{(j_i - 1)! \cdot (n_i - n_{is} + j_s - l_k - 1)!} \cdot$$

$$\frac{(n_i - j_s - 1)!}{(n_i + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - l - 1)!}{(D - j_s - l + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{(\)} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(\)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n \wedge l = k > 0 \wedge$

$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$

$s > 2 \wedge s = s + k \wedge$

$k_z: z = 1 \Rightarrow$

$$fz_{j_s, j_i}^{SD} = \sum_{k=l} \sum_{(j_s=2)}^{D-j_{sa}^{ik}} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

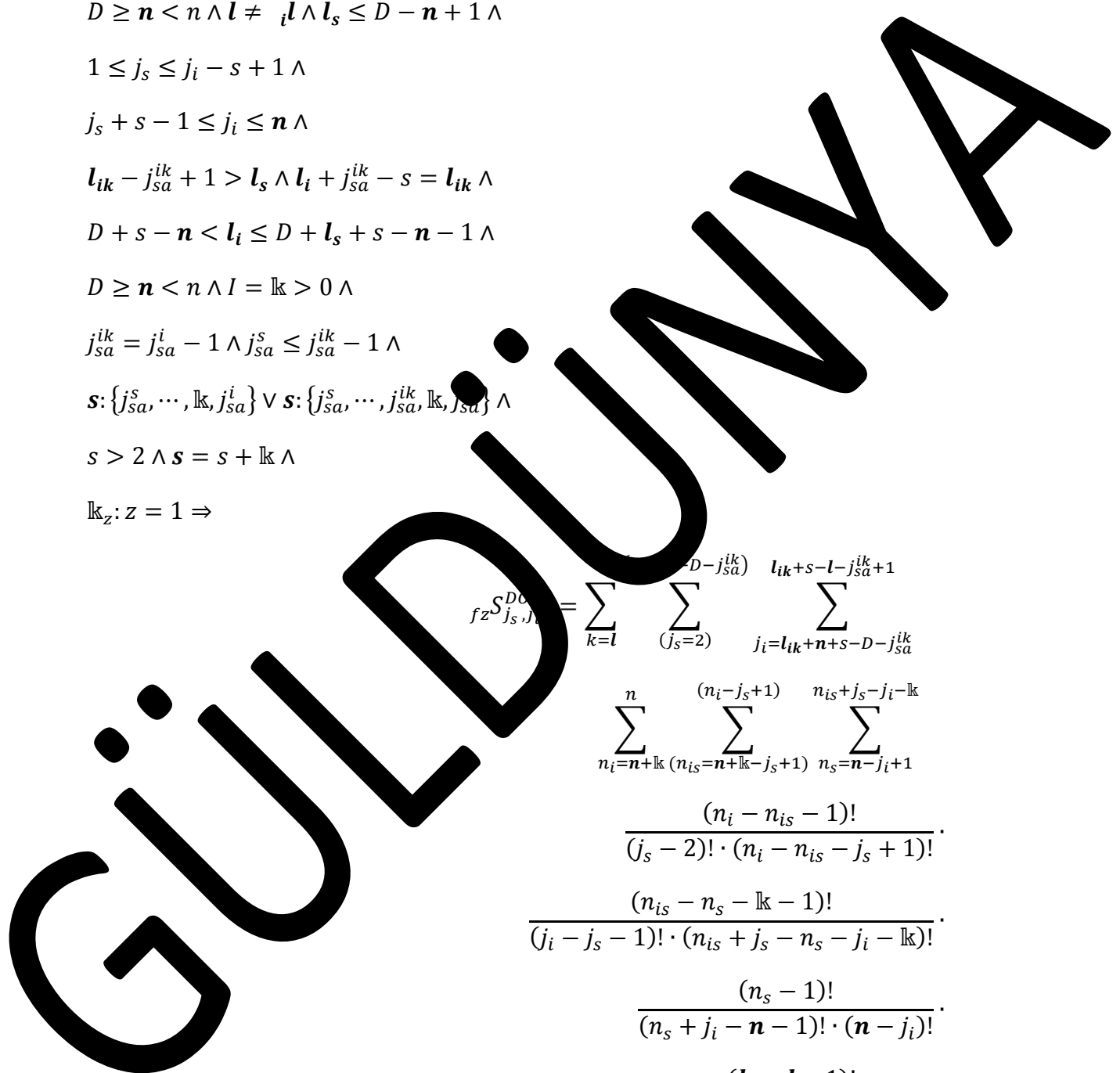
$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$



$$\begin{aligned}
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)}^{(l_s - l + 1)} \sum_{j_i = j_s + s - 1}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \\
 & \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{= n - j_i + 1}^{n_{is} + j_s - j_i} \\
 & \frac{(n_i - n_{is} - k)!}{(j_s - 2)! \cdot (n_i - n_{is} - k + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
 & \frac{(n_s - n_i - n - 1)!}{(n_s - n_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + 1)!}{(j_s - l - l_s)! \cdot (j_i - j_s - s + 1)!} \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)}^{(l_s - l + 1)} \sum_{j_i = j_s + s - 1} \\
 & \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \\
 & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOS} \sum_{k=l}^{l+1} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{(n-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_s=n+k-j_s)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{(n_{ik}+j_{sa}^{ik}-s-k-j_{sa}^s)} \frac{(n_{ik}+j_{sa}^{ik}-s-k-j_{sa}^s)}{(n_{ik}+j_s+j_{sa}^{ik}-n-k-2 \cdot j_{sa}^s)} \frac{(n+j_{sa}^s-j_{sa}^s-s)!}{(l_s-l-1)!} \frac{(l_s-l-1)!}{(l_s-l+1)! \cdot (j_s-2)!} \frac{(D-l_i)}{(D+j_s)(n-l_i)! \cdot (n-j_i)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + j_s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - 1)! + 1)!}$$

$$\frac{(n_{is} - n_{ik} - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + 1 - n_s - j_i - 1)!}$$

$$\frac{(n_s - j_i - n - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(n - l - 1)!}{(n - j_s - 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l - i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i=s+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

GÜLDÜZÜM

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$l_i - 1 \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n} \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+k}^{n_i+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k})!}{(j_i - j_s - 1)! \cdot (n_{is} - j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(n_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n} \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+k}^{n_i+j_s-j_i-k} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

GÜLDÜMÜYA

$$\left((D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D - n < l_i \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{n_i} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
 &\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
 &\frac{(n_{i_s} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i - l_k)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{n_i} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
 &\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
 &\frac{(n_{i_s} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i - l_k)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
 \end{aligned}$$

GÜLDÜZMAYA

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l} \sum_{n_i=n+k}^n \sum_{(n_i+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \frac{(n_{ik}+j_{sa}^{ik}-s-k-j_s-1)!}{(n_{ik}+j_s+j_{sa}^{ik}-n-k-j_s-1)! \cdot (n_{ik}+j_s-j_s-s)!} \frac{(l_s-l)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l \neq i \wedge l \leq D - n + 1) \vee \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge \\ & D + j_{sa} - n < l_i \leq D + l_s + j_{sa} - n - 1) \vee \\ & ((D \geq n < n \wedge l \neq i \wedge l \leq D - n + 1) \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge \\ & D + j_{sa} - n < l_{ik} \leq D + l_s + j_{sa} - n - 1) \vee \\ & ((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1) \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \end{aligned}$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\}$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$j_{sa}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - k - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(\quad)} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 \leq l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$s > 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - j_s - n - 1)! \cdot (n - j_i)!}{(j_s - 1)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_s - l_s - s + 1)!}{(j_s + 1)! \cdot (l_s - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

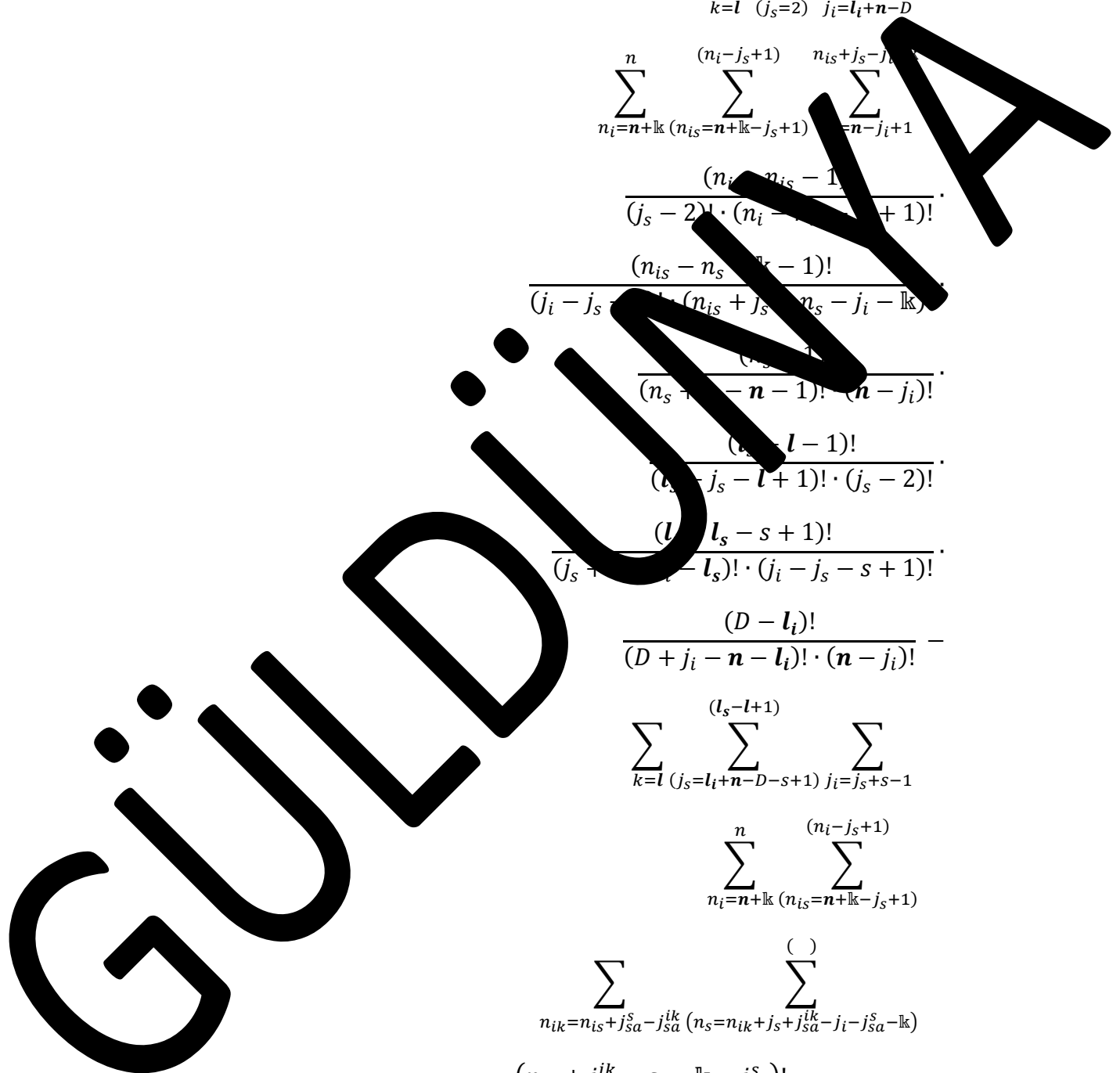
$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$



$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{n_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - l_k - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^{()} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-l_k)}^{()} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l \neq j_l \wedge l_s \leq D - n + 1 \wedge$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$\sum_{k=1}^{D+l_s+1} \sum_{j_i=l_i+n-D}^{l_i+n-D} \sum_{j_s=2}^{l_i-l+1} \sum_{n_i=n+k}^{n} \sum_{n_s=n-k-j_s+1}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l - l_s - s - 1)!}{(j_s + l_i - l - l_s - i_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=1}^{l_s - l - j_{sa} + 2} \sum_{i=l_i+n-D-s+1}^{l_s - l - j_{sa} + 2} \sum_{j_i=j_s+s-1}^{l_s - l - j_{sa} + 2} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

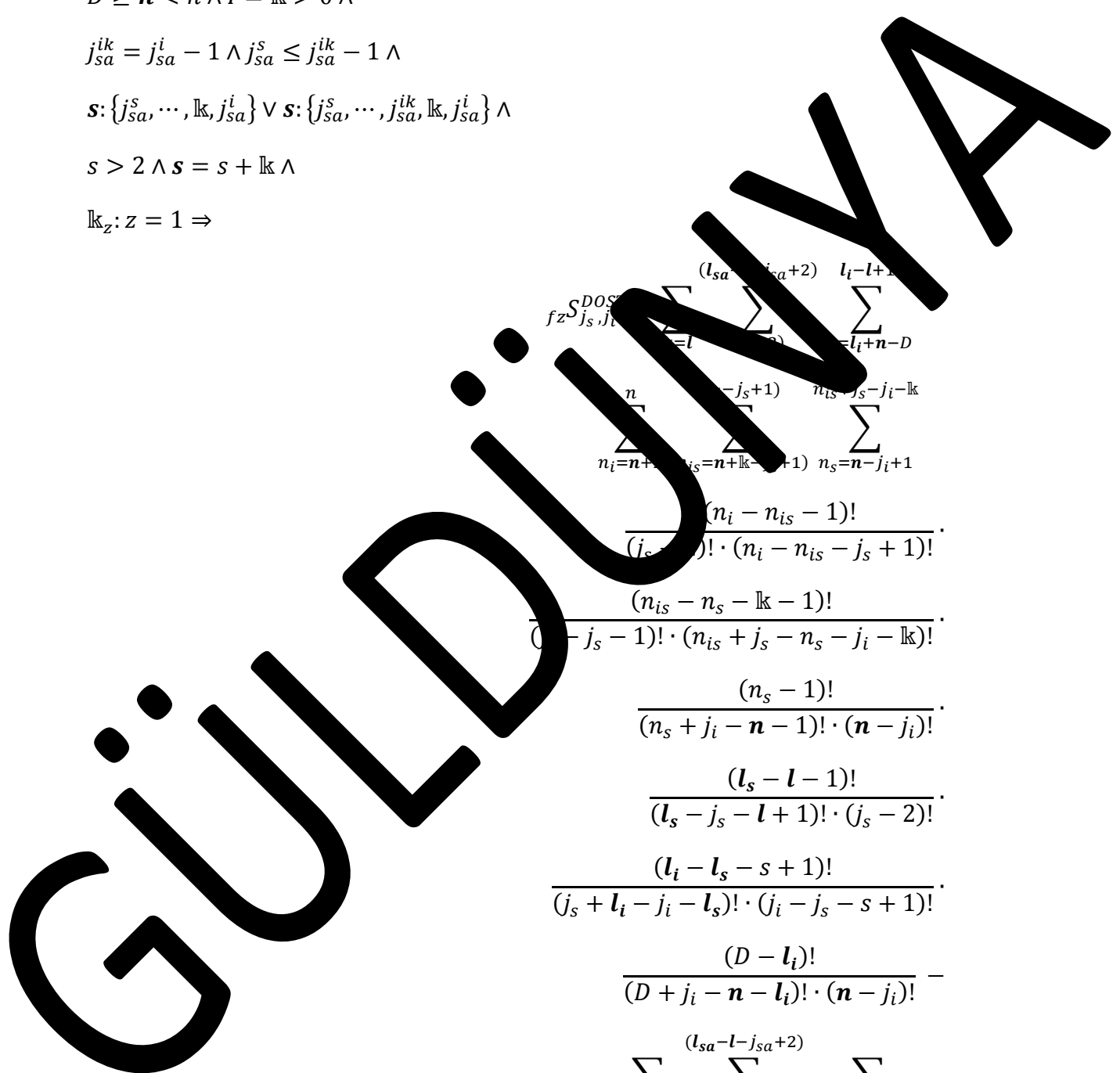
$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOS} = \sum_{l=l_i+n-D}^{(l_{sa}-j_{sa}+2)} \sum_{n_i=n+l}^{(l_i-l+1)} \sum_{n_{is}=n+k-1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}-j_s-j_i-k)} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(l_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^{(n_i-l-j_{sa}+2)} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$



$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s > l_{ik} \wedge l_i + j_{sa}^s - s = l_{sa}$

$D + s - n < l_i \leq D + l_s + s - n - 1$

$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s > 2 \wedge s = s + 1$

$\mathbb{k} - z = 1 \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^n \sum_{(j_s=2)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_{ik}+s-j_{sa}^{ik}+2}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{j_i-k} \frac{(n_i - j_s - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \sum_{k=l}^n \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

GÜLDÜZ

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s > 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$= \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-\mathbb{k}}$$

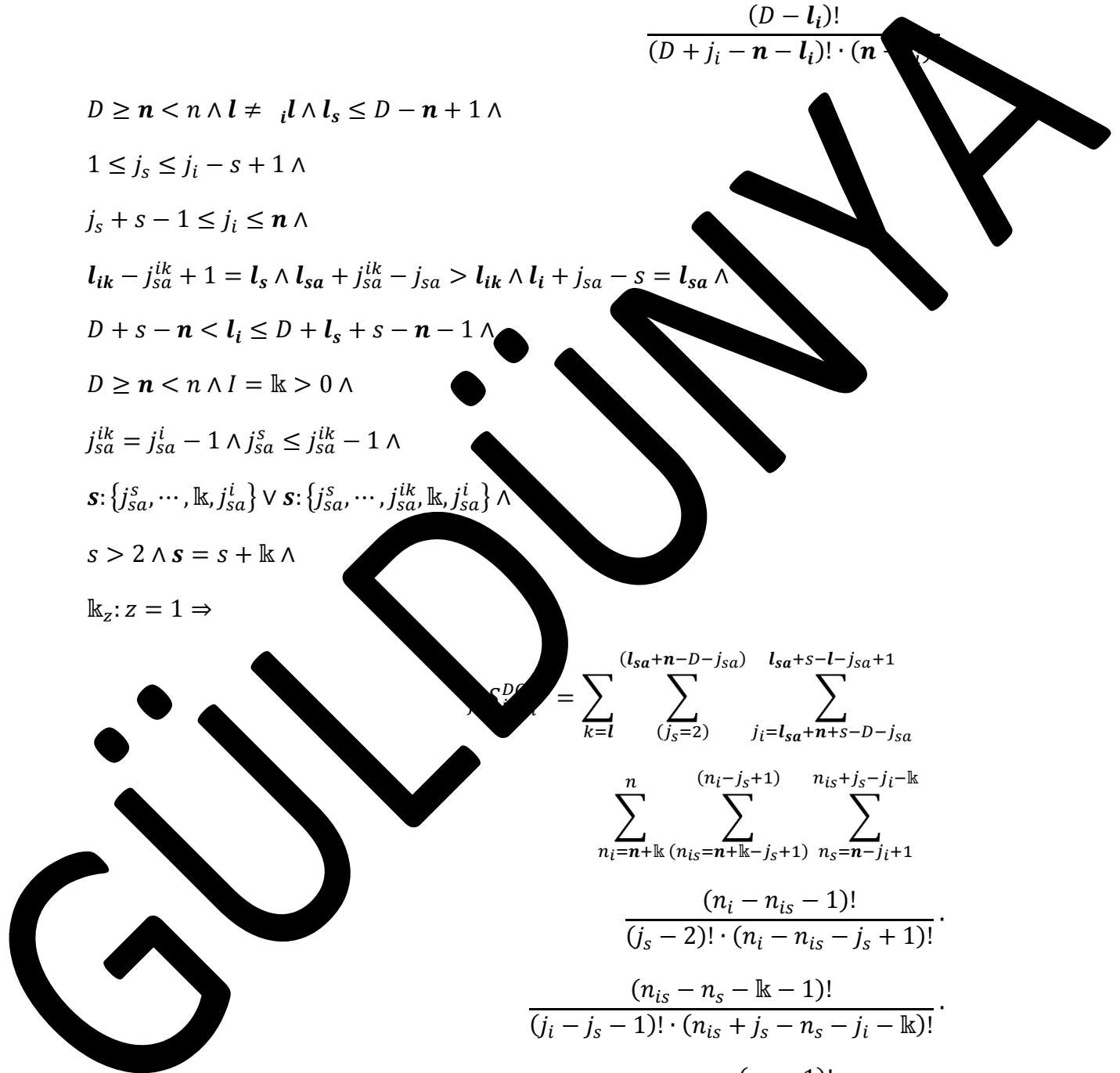
$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$



$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s)}^{(n_i-j_s+1)} \sum_{n_i=j_i+1}^{(n_i+j_s-j_i-l_k)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i + n_{is} - j_s + 1)}$$

$$\frac{(n_i - l_s - l - 1)!}{(j_i - 1)! \cdot (n_i + j_s - l_s - j_i - l_k)!}$$

$$\frac{(n_i - l_s - 1)!}{(n_i + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(D - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - l_k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - l_k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s}^{DOS} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1} \sum_{n_i = n + k}^n \sum_{(n_{is} + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{ik} + j_s + j_{sa}^{ik} - n - k)}^{(n_{ik} + j_s + j_{sa}^{ik} - l - k)} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa} + 1)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k)! \cdot (n + j_{sa}^{ik} - j_s - s)!} \frac{(l_s - l - k)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq l \wedge l \leq D - n + 1)$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-l+1)} \sum_{(j_s=2)}^{j_i-l+1} \sum_{j_i-l+1}^{n+l_s+n+s-D-j_{sa}} \sum_{n_i=n+l_k}^{(n_i-l+1)} \sum_{(n_{is}=n+l_k-j_s+1)}^{n_i-l+1} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - k - 1)!}{(n_s - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s+s-l+1}^{n_i+j_s-j_i-k} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_s - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{\binom{n}{n_i - n_{is} - j_s + 1}} \sum_{\substack{\Delta \\ n_i = j_i - s + k \\ n_s = l_{sa} + n + s - D - j_{sa}}} \sum_{n_i = n + \mathbb{k}}^n \sum_{n_{is} = n + \mathbb{k} - j_s + 1}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k}}^{\binom{n}{n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s}} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - n - \mathbb{k} - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n - 1) \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1))$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$j_{sa}^{ik} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n} \sum_{(n_i=n+\mathbb{k})}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{(n_i - n_{is} - 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k)}^{(n_i-j_s+1)} \sum_{(n_s=j_i+1)}^{(n_i-j_s+1)+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(j_i - k - 1)!}{(j_i - k - 1)! \cdot (n_{is} + j_s - k - 1)!}$$

$$\frac{(n_s - 1)!}{(D + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l = i \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_{z^D} S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \\
 &\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - k - 1)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s + s + 1)!}{(j_s + l_i - l - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 &\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{(l_s-l-1)} \\
 &\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 &\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(n_i-j_s+1)} \\
 &\frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_s + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - j_{sa}^{ik} + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=0}^{\lfloor l_i \rfloor} \sum_{j_s=1}^{\lfloor l_i - k \rfloor} \sum_{j_i=s}^{\lfloor l_i - k \rfloor} \sum_{n_i=n+k}^n \sum_{n_s=n-j_i+k}^{\lfloor n_i - j_i - k + 1 \rfloor} \frac{(n_i - n_s - k)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - k + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - 1)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + s - l_i - 1)! \cdot (n - s)!} \cdot \sum_{k=0}^{\lfloor l_i \rfloor} \sum_{j_s=1}^{\lfloor l_i - k \rfloor} \sum_{j_i=s}^{\lfloor l_i - k \rfloor} \sum_{n_i=n}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{\lfloor n_i - j_s - j_{sa}^{ik} \rfloor} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}^{\lfloor n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s \rfloor} \frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - n - k - 2 \cdot j_{sa}^s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

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$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{(l_{ik}+s-l-j_{sa}^{ik})} \sum_{(n_i=n-j_s+1)}^{(n_i+j_s-j_i)} \frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_i=l_{ik}+s-l-j_{sa}^{ik}+2)}^{(l_i-l+1)} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i)}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{\mathbb{k}=1}^{n_i} \sum_{\substack{(\cdot) \\ (j_s=j_i-\mathbb{k}-1)}}^{j_{sa}^{ik}+1} \sum_{j_i=l_i+n-D}^{n_i-j_s+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{\mathbb{k}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\cdot)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{(\cdot)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} - 2 \cdot j_{sa}^s + n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$l_s - l_i - j_s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_i-l+1} \sum_{j_i=l_i+n}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{j_i = l_i + n - D - s + 1}^{j_i = l_i + s - 1} \sum_{n_i = n - l_i - j_{sa}^{ik} - j_s + 1}^n \sum_{n_{is} = n + k - j_s + 1}^{n_{is} = n - j_{sa}^{ik} - j_s + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k} (2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_s - s - k)! \cdot (2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - j_s - s)! \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

- $D \geq n < n + 1 \wedge l_i > D - j_i + 1 \wedge$
- $D + l_i + s - n - j_i + 1 \leq l_i \wedge D \geq n + 1 \wedge$
- $2 \leq j_s = j_i - s \wedge$
- $j_s + s \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} - 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$
- $D \geq n < n + 1 \wedge l = k = 0 \wedge$
- $j_{sa}^s = j_{sa} - 1 \wedge$
- $s: \{j_{sa}^s, j_{sa}^i\} \wedge$
- $s \geq 2 \wedge s = s \Rightarrow$

$$\begin{aligned}
 f_z^{S_{j_s, j_i}^{DOST}} = & \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l} \sum_{(j_s=l_i+n-D-s+1)}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
 & \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s-1)} \sum_{(j_s=l_s+n-D)}^{j_i+l-1} \sum_{j_i+l-n+s-D-j_{sa}^{lk}}^{j_i+l-1} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{ik}+s-l-j_{sa}^{lk}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D - n - 1)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{n_i - j_s + 1} \sum_{l_{ik} = l_{ik} + n + s - D - j_{sa}^{ik}} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k}}^{(n_s - j_s + 1)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} - 2 \cdot j_{sa}^s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \cdot j_{sa}^s - j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{(j_s=l_s+n-D)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_s}^{n} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_s-n_{is}-1)!} \frac{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}{(n_i-n_{is}-1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=j_s+s-1}^{n} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{(n_i-n_{is}-1)!} \frac{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!}{(n_i-n_{is}-1)!} \cdot \frac{(n_{is}-n_s-1)!}{(j_i-j_s-1)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)}^{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)} \sum_{j_{sa}^{ik} = s - 1}^{(j_{sa}^{ik} = s - 1)}$$

$$\sum_{n_i = n - j_{sa}^{ik} + 1}^n \sum_{n_{is} = n + l_k - j_s + 1}^{(n_{is} = n + l_k - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} - j_{sa}^{ik} + 1}^{(n_{ik} = n_{is} - j_{sa}^{ik} + 1)} \sum_{(n_{ik} = n_{is} - j_{sa}^{ik} + 1)}^{(n_{ik} = n_{is} - j_{sa}^{ik} + 1)}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_s - s - l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - s - l_k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $(l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$
- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $(l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$
- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \Big) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_s+s+1)} \sum_{j_i=l_i+s-l}^{(j_s+s+1)} \frac{(j_s+s+1)!}{(j_s-2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - j_s + 1)!}{(n_{is} - j_s + 1)!} \cdot \frac{(n_{is} + j_s - j_i)!}{(n_{is} - j_i + 1)!} \cdot \frac{(n_s - n_s - 1)!}{(n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l_i}^{l_s+s-1} \sum_{n_i=n+k}^{n_i=n+l-k-j_s+1} \sum_{n_{is}=n+l-k-j_s+1}^{n_{is}=n+l-k-j_s+1} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}}^{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}} \frac{(2 \cdot n_{is} + j_{sa}^{ik} - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_{sa}^{ik} - n_{ik} - j_{sa}^{ik} - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_i + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\ & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \end{aligned}$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{i_i}^{POST} = \sum_{k=l}^{(l_s - l + 1)} \sum_{j_i=l_i+n-D}^{(l_s - l + 1)} \sum_{j_i=l_i+n-D}^{(l_s - l + 1)} \frac{(n_i - j_i + 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s - l + 1)} \sum_{j_i=l_i+n-D-s+1}^{(l_s - l + 1)} \sum_{j_i=j_s+s-1}^{(l_s - l + 1)}$$

$$\begin{aligned}
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l - l_s - s - 1)!}{(j_s + l_i - l_s - l - s + 1)! \cdot (i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=1}^{(l_s-l+1)} \sum_{i=l_i+n-D-s+1} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
 & \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$((D \geq n < n \wedge l_s > D - n + 1 \wedge$
 $D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$
 $2 \leq j_s \leq j_i - s \wedge$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n} \sum_{(n_i=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_i+n-D-s+1}^{j_s+s-1} \sum_{n_i=n}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}+k} \sum_{n_{ik}=n_{is}-j_{sa}^{ik}}^{n_{is}+j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}} (2 \cdot n_{ik} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)! \cdot (2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_{sa}^{ik} - n - j_{sa}^s - 1)! \cdot (n + j_{sa}^s - j_s - s)! \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D > n < n \wedge D > D - l + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{ik} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$D > n \wedge I = \mathbb{k} = 0 \wedge$

$j_{sa}^s \leq j_{sa}^l \wedge$

$s: \{j_{sa}, j_{sa}^s\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{j_s+l-1} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1}$$

$$\begin{aligned}
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{sa}-l-s+2)} \sum_{j_{sa}=n_{sa}+k}^{l_{sa}+n_{sa}-j_{sa}+1} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l}^{(\cdot)} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik})}^{(\cdot)}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - 1)! \cdot (n + j_{sa}^s - s)!} \cdot \frac{(l_s - l + 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} = l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$

$D \geq n < n \wedge l = l_s = 0 \wedge$

$j_s \leq j_{sa}^i - 1$

$s: \{ \dots, j_{sa}^i \} \wedge$

$\geq 2 \wedge l_s = s \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} + \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}=n_s+1} \frac{(n_i - n_{is} - 1)!}{(j_s - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}=n_s+1}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i + j_{sa} - s \wedge l_{sa} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_i-l+1)} \sum_{j_i=l_i+n-D}^{(l_i-l+1)}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_s=l_i+n-D-s+1}^{j_s+s-1} \sum_{n_i=n}^n \sum_{n_{is}=n+k-j_s+1}^{n_{is}+1} \sum_{n_{ik}=n_{is}-j_{sa}^{ik}}^{n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}} \frac{(2 \cdot n_{ik} + j_{sa}^s - n_{ik} - j_i - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_i - n - j_{sa}^{ik} - s - 1)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n_{ik} > D - l_i + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_i - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n_{ik} \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l \wedge$$

$$s: \{j_{sa}, j_{sa}\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fzS_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{j_s+s-1} \sum_{n_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+1}$$

$$\begin{aligned}
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^l \sum_{j_{sa}^{ik}+1}^{(l_{ik}-l_{sa}+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_{sa}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_i=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \dots)}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \dots) \cdot (n + j_{sa}^s - \dots)!}$$

$$\frac{(l_s - 1)!}{(l_s - l + 1) \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - \dots > l_{ik} \wedge l_{sa} - j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = \dots = 0 \wedge$$

$$j_s \leq j_{sa}^i - 1$$

$$s: \{ \dots \} \wedge$$

$$\geq 2 \wedge \dots - s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n}^n \sum_{(n_i=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n-(n_i-j_s+1)-j_i}$$

$$\sum_{n_i=n+k}^n \sum_{n_s=n-k-j_s+1}^{n_i-j_s+1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n-(n_i-j_s+1)-j_i}$$

$$\sum_{n_i=n+k}^n \sum_{n_s=n+k-j_s+1}^{n_i-j_s+1}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{()}^{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})!$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$D + l_s + s - \mathbf{n} - l_i + 1 \leq l \leq D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{n} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_{j_i}^{s, ST} = \sum_{k=l}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{(j_i=l_{sa}+\mathbf{n}+s-D-j_{sa})}$$

$$\sum_{n_i=\mathbf{n}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=\mathbf{n}-j_i+1)}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - l - j_{sa} + 1)}^{j_{sa} + s - 1} \sum_{n_i = n - l - j_{sa} + 1}^n \sum_{n_{is} = n + k - j_s + 1}^{n - j_{sa} - k} \sum_{n_{ik} = n_{is} - j_{sa}^{ik} - j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k}^{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_s - s - k)!} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_s - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - j_s - s - k)!} \cdot (n + j_{sa}^s - j_s - s)! \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{(j_i=l_{sa}+n+s-l)}^{(l_s+s)} \dots$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \dots$$

$$\frac{(j_s - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(j_s - n_s - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{(l_s-l+1)} \sum_{j_i=l_s+s-l+1}^{l_{sa}+s-l-j_{sa}+1} \dots$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \dots$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

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$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l_s}^{()} \sum_{n_{is}=n+l_s-k}^{()} \sum_{n_{sa}=n+l_s-k-j_{sa}}^{l_s+s-l} \sum_{n_{ik}=n+l_s-k-j_{sa}}^{()} \sum_{n_{is}=n+l_s-k-j_s+1}^{(n_{is}-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}}^{(n_{is}-j_s+1)}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^{ik} - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$((D \geq n < n) \wedge (l_s > D - n + 1) \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s - l - 1)} \sum_{j_s = l_{sa} + n - D - j_{sa} + 1}^{l_{sa} + n - l - j_{sa} + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}^{l_{sa} + n - l - j_{sa} + 1}$$

$$\frac{\sum_{n_i = n - j_s + 1}^{(n_i - 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i}}{n_i! (n_{is} = n - j_s + 1) n_s! (n - j_i + 1)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s - l - 1)} \sum_{j_s = l_{sa} + n - D - j_{sa} + 1}^{l_{sa} + n - l - j_{sa} + 1} \sum_{j_i = j_s + s - 1}^{l_{sa} + n - l - j_{sa} + 1}$$

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$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(j_s + l_i - l_s - s - 1)!}{(j_s + l_i - l_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{(l_s-l-1)} \sum_{(j_{is}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

- $((D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s \wedge$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{(l_s-l-1)}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{(l_s-l-1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{(l_s-l-1)} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(l_s-l-1)}$$

$$\frac{(2 \cdot n_{ik} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_{sa}^{ik} - n - j_{sa}^{ik} - s - 1)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D > n < n \wedge i \neq l \wedge i \leq D - n + 1 \wedge$$

$$1 \leq i \leq j_i - s +$$

$$i + s - \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_i \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + j_i - n \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s = j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
fz_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_s}^{ik+1}} \sum_{j_i=s+1}^{n_{is+j_s-j_i}} \\
&\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is+j_s-j_i}} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - j_s - l + 1)!}{(j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_{ik-l-j_s}^{ik+2})} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_{ik+s-l-j_s}^{ik+2}}^{n_{is+j_s-j_i}} \\
&\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is+j_s-j_i}} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{j_i=s+1}^{(n_i-j_s+1)} \sum_{n_i=n+l_k}^{(n_{is}+l_k-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{ik}+j_s+j_{sa}^{ik}-j_i-l_k)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_i - j_{sa}^{ik} - j_{sa}^{ik} - s - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_i \neq n - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq \dots \wedge$

$l_s - j_{sa}^{ik} + 1 \leq l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$

$D \geq n < n \wedge I = \dots = 0 \wedge$

$j_{sa}^s \leq j_s - 1 \wedge$

$s: \{j_{sa}^s, j_{sa}^i\}$

$s > \dots \wedge \dots = s \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(n_i - n - 1)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_s)} \sum_{j_i=j_s+s-1}^{(n - j_s + 1)} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i - j_s + 1)} \sum_{k=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} - 2 \cdot j_{sa}^s - n_{ik} - j_s - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n - l \neq i \wedge l \wedge l_s \leq D - n + 1 \wedge$$

$$1 - j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

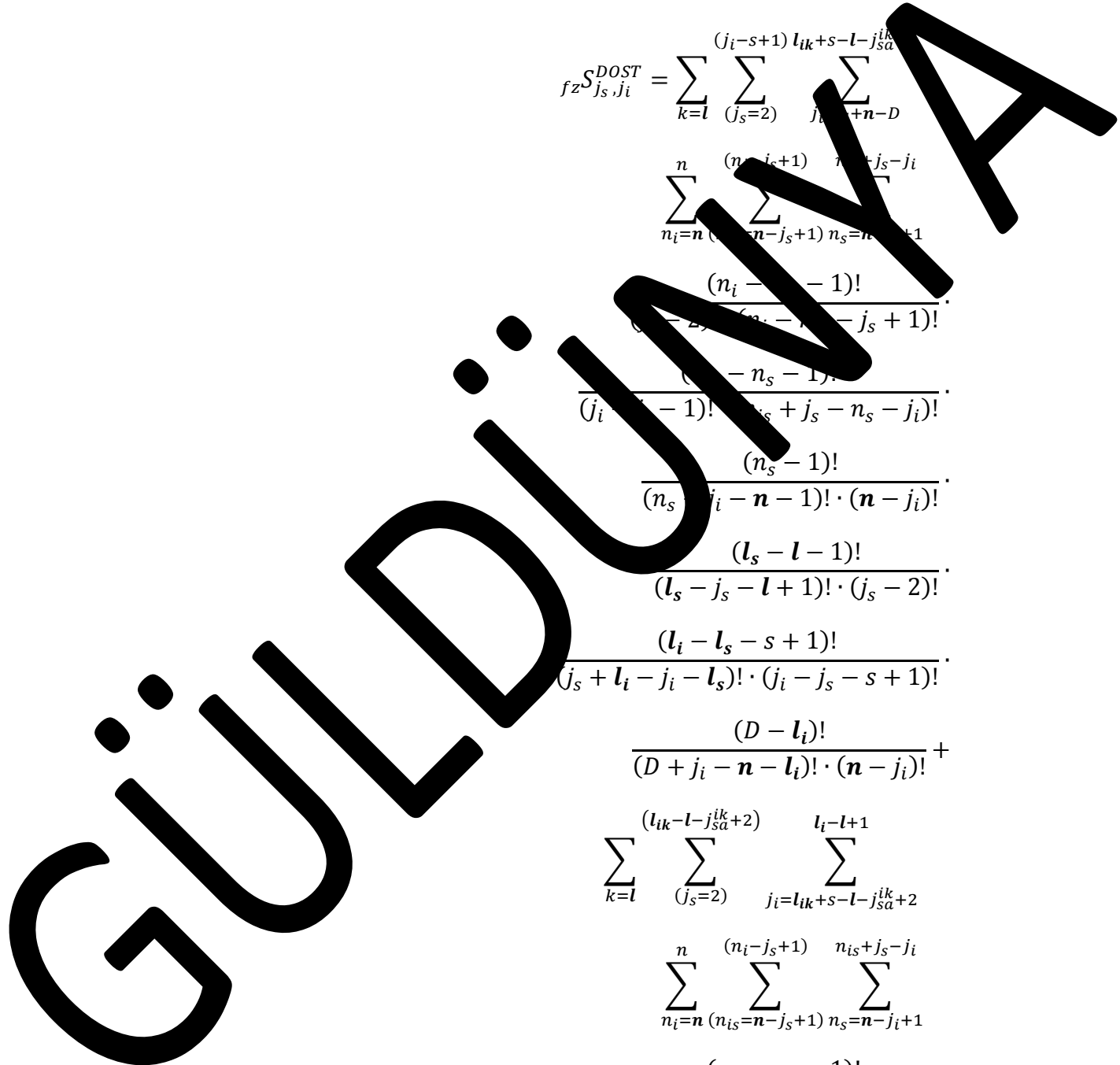
$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$

$j_{sa}^s \leq j_{sa}^i - 1 \wedge$

$s: \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1) l_{ik+s-l-j_{sa}^{ik}}} \sum_{(j_s=2)} \sum_{j_{sa}^{ik}+n-D} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(j_i - l - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$



$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(n - l_{ik} + s - j_{sa}^{ik} + 1)} \sum_{j_i=l_i+n-k}^{(n - j_s + 1)} \sum_{n_i=n+k}^n \sum_{j_s=j_s+1}^{(n_i - j_s + 1)} \sum_{k=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{(n_{ik}+j_s+j_{sa}^{ik} - j_i - j_{sa}^s - k)} \frac{(2 \cdot n_{is} + j_{sa}^s - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_s + s + 1 \wedge$$

$$j_s + 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^s = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$s \geq 2 \wedge s = s \Rightarrow$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n_i-n_{i_s}-1} \\
 &\sum_{n_i=n}^n \sum_{(n_{i_s}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{i_s}+j_s-j_i} \\
 &\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \\
 &\frac{(n_{i_s} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i)!} \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
 &\frac{(l_i - l_s - s + 1)!}{(l_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_{ik}-l-j_{s\bar{a}}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_i-n_{i_s}-1} \\
 &\sum_{n_i=n}^n \sum_{(n_{i_s}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i} \\
 &\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \\
 &\frac{(n_{i_s} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i)!} \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}
 \end{aligned}$$

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$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1}^n \sum_{n_i = n + 1}^n \sum_{n_{ik} = n_{is} + j_{sa}^{is} - n_{ik} - j_{sa}^{is} - s - \mathbb{k}}^{(n + j_{sa}^s - j_i - j_{sa}^s - \mathbb{k})} \frac{(2 \cdot n_{is} + j_{sa}^{is} - n_{ik} - j_{sa}^{is} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - n_{ik} - \mathbb{k})!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq 0 \wedge l \wedge l_s \leq D - l + 1 \wedge$$

$$D + l_s + s - n - l_i - 1 \leq l \leq l_i - 1$$

$$2 \leq j_s \leq j_i - s$$

$$j_s + s < j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + l_s + s - n < l_i - 1 + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$l_i - j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$\begin{aligned}
 f_z^{SDOST}_{j_s, j_i} &= \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n} \\
 &\quad \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_s+1}^{n_s} \\
 &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\quad \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 &\quad \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 &\quad \frac{(l_s - j_s - l + 1)!}{(j_s - 2)!} \cdot \\
 &\quad \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 &\quad \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 &\quad \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{n} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \\
 &\quad \sum_{n_i=n+k}^{n} \sum_{(n_{is}=n+k-j_s+1)}^{n_s} \\
 &\quad \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
 &\quad \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 &\quad \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\quad \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz^{S_{j_s, j_i}^{DOST}} \sum_{j_s=1}^{j_i-s+1} \sum_{l_s=1}^{l_s+s-l} \sum_{n_i=n-j_s+1}^{n} \sum_{n_{is}=n-j_s+1}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-l+1}^{n} \sum_{n_i=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D - n - 1)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{n_i - j_i - s + 1} \sum_{l_{ik} = l_{ik} + n + s - D - j_{sa}^{ik}}^{n_i - j_i - s + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{\mathbb{k} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 - j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$f_{z} S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=2)}^{(l_{ik}+n-D-j_{sa}^{ik})} \sum_{j_i=l_{ik}+n-D-j_{sa}^{ik}+1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i+1)} \sum_{n_s=n-j_i+1}^{n_i-j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s - l)} \sum_{j_s=l_{ik}+n_{is}-j_{sa}^{ik}+1}^{j_s} \sum_{j_i=j_s+1}^{n} \sum_{n_i=n+k}^{n} \sum_{n_{is}=n_{is}-j_s+1}^{(n_i - j_s + 1)}$$

$$\sum_{n_{is}=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{n} \sum_{n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}^{()}$$

$$\frac{(2 \cdot n_{is} - 2 \cdot j_s - n_{ik} - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!}{(2 \cdot n_{is} - 2 \cdot j_s - n_{ik} - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq l_s < n \wedge l \neq i \wedge l \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{ik}}^{(n_i-j_s+1)} \sum_{n_i=n}^{n_{is}+j_s-1} \sum_{(n_{is}=n-j_s+1)}^{n-j_i+1} \frac{(n_i-1)!}{(j_s-2)! \cdot (n_i-n_{is}+1)!} \cdot \frac{(n_{is}-1)!}{(j_i-1)! \cdot (n_{is}-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_s-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_s-l-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \cdot \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{j_i=j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i - n) \vee$$

$$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^l\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}^{l_s+s-l}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{i=s+1}^{l_s+s-l} \sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{()} \sum_{(n_{ik}=n_{is}-j_{sa}^{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{ik})}^{()} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_{sa}^{ik} - n - j_{sa}^{ik})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$

$l_i \leq D + j_{sa}^{ik} - n) \vee$

$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$

$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}+k-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-k)}^{()} \frac{(2 \cdot n_{is} + j_{sa}^{is} - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - 1)! \cdot (n + j_s - j_s - s)!} \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & ((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1) \vee \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge \\ & D + j_{sa} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee \\ & ((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1) \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge \\ & D + j_{sa} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \wedge \\ & ((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1) \wedge \\ & 1 \leq j_s \leq j_i - s + 1 \wedge \\ & j_s + s - 1 \leq j_i \leq n \wedge \end{aligned}$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOS} \sum_{k=l}^{s+1} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{l_s+s-l}$$

$$\sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{lk})}^{()} \\
 & \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k =$$

$$j_{sa}^s - j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\}$$

$$s \leq j_{sa}^s = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{(l_s-l+1)} \sum_{i=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n}^n \sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_i=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^s} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - j_{sa}^s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i - 1)!}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$(D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1))$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s + s - 1} \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_{ik} + j_s + j_{sa}^{ik} - k)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - 1)! \cdot (n + j_s - j_s - s)!} \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq -n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \wedge$$

$$l_s - j_{sa}^{ik} + \dots \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq \dots \wedge l_s + \dots = n - 1 \wedge$$

$$D \geq n < n \wedge l = k = \dots \wedge$$

$$j_{sa}^s \leq j_{sa}^i - \dots$$

$$s: \dots \wedge$$

$$s \geq 2 \wedge s = \dots \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i - s + 1)} \sum_{(j_s = 2)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = l_i + n - D} \sum_{n_i = n}^n \sum_{(n_{is} = n - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{(l_{sa} - j_{sa} + 2)} \sum_{(j_s=2)}^{l_i - n - 1} \sum_{i=l_{sa} + s - l - j_{sa} + 2}^{n - j_i}$$

$$\sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(\quad)}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_s - j_s - s)!}$$

$$\frac{(l - l - 1)!}{(l_s - j_s - l - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - i - l_{ik} \wedge l_i - j_{sa} - s > 0 \wedge$$

$$D + s - n < l_i \leq D + l_s - s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s \in \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\begin{aligned}
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l+1} \sum_{j_i=j_s+s-1}^{n-j_s} \\
 & \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{(n_{is}=n+k-j_s+1)}^{n_{is}+j_s-j_i} \\
 & \frac{(n_s - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_s - n_s - 1)!}{(j_s - 2)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}
 \end{aligned}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l \neq i \wedge l \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$D + l_s + s - \mathbf{n} - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s: 2 \wedge s = \dots \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-l+1}$$

$$\sum_{n_i=\mathbf{n}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{j_i=j_s+s-1}^{n-l-k} \sum_{n_i=n+k-j_s+1}^{n-l-k} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{n-l-k+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k} \frac{(2 \cdot n_{ik} + j_{sa}^s - n_{ik} - j_i - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_i - n - j_{sa}^{ik} - s - 1)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D > n < n \wedge i \neq l \wedge l_i \leq D - n + 1 \wedge$

$1 \leq i \leq j_i - s + 1 \wedge$

$j_i + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 \leq l_i \wedge l_i + j_{sa}^{ik} - j_{sa}^s > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D - l_s - 1 \leq l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n \wedge l = k = 0 \wedge$

$j_{sa}^s = j_{sa} - 1 \wedge$

$s: \{j_{sa}^s, j_{sa}^i\} \wedge$

$s \geq 2 \wedge s = s \Rightarrow$

$$\begin{aligned}
 f_{j_s, j_i}^{S_{DOST}} = & \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{j_i=l_{sa+n+s-D-j_{sa}}}^{n_{is+j_s-j_i}} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is+j_s-j_i}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{ik-l-j_{sa}^{ik}+2})} \sum_{(j_s=2)}^{l_{sa+s-l-j_{sa}+1}} \sum_{j_i=l_{ik+s-l-j_{sa}^{ik}+2}}^{n_{is+j_s-j_i}} \\
 & \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is+j_s-j_i}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik+s-l-j_{sa}^{lk}+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(n_i-j_s+1)} \sum_{n_i=n+lk}^n \sum_{(n_{is}+lk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{ik}+j_s+j_{sa}^{lk}-j_i-lk)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - j_{sa}^{lk} - j_i - 1)!} \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s = D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq \dots \wedge$

$l_s - j_{sa}^{lk} + \dots \wedge l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq \dots + l_s + \dots - 1 \wedge$

$D \geq n < n \wedge l = lk = \dots \wedge$

$j_{sa}^s \leq j_{sa}^l - \dots$

$s: (j_{sa}^s) \wedge$

$s \geq 2 \wedge s = \dots \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{(n_i-j_s+1)} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(n - l_i)!}{(n - l_i - n - j_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}^{n_{is} + j_s + 1}$$

$$\sum_{n_{is} = n - j_s + 1}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}^{n_{is} + j_s + 1}$$

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$$\frac{\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_s - j_s - s)!} \cdot \frac{(l - l - 1)!}{(l_s - j_s - l - 1)! \cdot (l - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - l - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + l - j_{sa} > l_{ik} + j_{sa} - l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n \wedge l = 0 \wedge$

$j_s \leq j_{sa}^i - 1$

$s: \{j_{sa}^i\} \wedge$

$j_s \geq 2 \wedge j_s = s \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}} \sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 1)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik}-l_s-2)} \sum_{n_{sa}+n_{sa}+1}^{n_{sa}+n_{sa}+1} \sum_{j_s+s-1}^{j_s+s-1} \sum_{n_{i= n+1}}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik} \mid n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa} - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D > n < n \wedge l_i \neq l_s \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$l_s - s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_i \neq l_s \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$j_{sa}^{DOST} = \sum_{k=l}^{i-s+1} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s=2)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i=l_s + s - l + 1}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n-j_s+1)}^{(n_i-j_s+1)} \sum_{s=n-j_i+1}^{n_{is}+j_s}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - 1)! \cdot (n_{is} - 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_i + j_s - n_s - j_i - 1)!}$$

$$\frac{(n_s - j_i - n - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(n - l - 1)!}{(n - j_s - 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l - i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$D \geq n < n \wedge l = i \wedge l_s = 0 \wedge$$

$$j_{sa}^s \leq j_i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\}$$

$$s \geq j_{sa}^i = s \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n} \sum_{n_i=n}^{(n_i-j_s+1)} \sum_{(n_{is}=n-j_s+1)}^{n_{is}+j_s-j_i} \sum_{n_s=n-j_i+1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{l-1} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{j_s+l-1} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

$$\sum_{n_{is}=n-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{j_s+l-1} \sum_{j_i=j_s+s-1}^{j_{sa}+1}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_s - j_s - s)!}$$

$$\frac{(l - l - 1)!}{(l_s - j_s - l - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{j_i=l_{sa}+n+s-k}^{l_{sa}+s-l_{sa}+1} \frac{\binom{n}{n_{is}-n_{is}+k} \binom{n_{is}+j_s-j_i}{n-j_i+1}}{\binom{n}{n_{is}-1} \binom{n_{is}+j_s-j_i}{n-j_i+1}} \cdot \frac{(n_{is}-1)!}{(n_{is}-2)! \cdot (n_{is}-j_s+1)!} \cdot \frac{(n_s-n_s-1)!}{(j_i-j_s-n_s)! \cdot (n_{is}+j_s-n_s-j_i)!} \cdot \frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l_s-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \cdot \sum_{k=l}^{(l_s-l-1)} \sum_{j_i=l_{sa}+n-D-j_{sa}+1} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}$$

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$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - l_i)!}$$

$$((D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s \geq 2 \wedge s = s \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{l=i}^{\binom{()}{l}} \sum_{j_s=1}^{l+1} \frac{(n_i - j_i + 1)!}{(n_i - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s - 2)! \cdot (n_s - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$\sum_{k=i}^{\binom{()}{l}} \sum_{j_s=1}^{\binom{()}{j_s}} \sum_{j_i=s}^{\binom{()}{j_i}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\binom{()}{n_{ik}=n_i-j_s-j_{sa}^{ik}}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}} \frac{(2 \cdot n_i - n_{ik} - 2 \cdot j_s - s - j_{sa}^{ik} - \mathbb{k} + 3)!}{(2 \cdot n_i - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k} + 2)! \cdot (n - s)!}$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{S_{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik})}^{l_{ik}+s-l-j_{sa}^{ik}} \sum_{(n_i=n+l_{ik})}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_i-l+1} \sum_{(n_i=n+l_{ik})}^{(n_i-j_s+1)} \sum_{(n_{is}=n+l_{ik}-j_s+1)}^{n_{is}+j_s-j_i-k}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{\mathbb{k}=1}^{(j_s - j_i - 1)} \sum_{j_i = l_i + n - D}^{j_{sa}^{ik} + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{\mathbb{k} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} - 2 \cdot j_{sa}^s + n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$l_s - l_i - j_s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_i-l+1} \sum_{=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_i+1)} \sum_{n_s=n-j_i+1}^{n_{is}-j_i-\mathbb{k}}$$

$$\frac{(n_i - j_i - 1)!}{(j_i - 2)! \cdot (n_i - j_i - j_s + 1)!}$$

$$\frac{(n_s - 1)!}{(j_s + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$s = 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l} \sum_{\substack{(l_{ik}-l-j_{sa}^{ik}+2) \\ (j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}} \sum_{\substack{l_i-l+1 \\ j_i=l_i+n-D}} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=n+\mathbb{k}-j_s+1)}} \sum_{\substack{n_{is}+j_s-j_i \\ (n-n-j_i+1)}} \\
 &\frac{(n_i-1)!}{(j_s-2)! \cdot (n_i-n_{is}+1)!} \cdot \\
 &\frac{(n_{is}-1)!}{(j_i-1)! \cdot (n_{is}-n_s-j_i)!} \cdot \\
 &\frac{(n_s)}{(n_s+j_s-n-1)! \cdot (n-j_i)!} \cdot \\
 &\frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \\
 &\frac{(l_s-l-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \\
 &\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} \cdot \\
 &\sum_{k=l} \sum_{\substack{(l_{ik}-l-j_{sa}^{ik}+2) \\ (j_s=l_i+n-D-s+1)}} \sum_{j_i=j_s+s-1} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=n+\mathbb{k}-j_s+1)}} \\
 &\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\substack{(\cdot) \\ (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}} \\
 &\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$S_{l_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=n-D)}^{(n-D)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-l} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{ik+s-l-j_{sa}^{ik}+1}} \sum_{j_i=l_s+s-l+1}^{n_{is}+j_s-j_i-k}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i - j_s)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n_s - 1)! \cdot (n - j_i - n_s)!}$$

$$\frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(\quad)} \sum_{(j_s=j_i-s+1)}^{(\quad)} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(\quad)}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_{ik}+n-D-j_{sa}^{ik}, l_{ik}+s-l-j_{sa}^{ik}+1)} \sum_{j_s=j_s+1}^{(j_s+n-D-j_{sa}^{ik}+1, l_{ik}+s-l-j_{sa}^{ik}+1)} \sum_{n_i=n+k}^{(n, n_i+j_s-j_i-k)} \frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+k}^{(n, n_i+j_s-j_i-k)} \frac{(n_i - j_s + 1)!}{(n_{is} + j_s - j_i - k)!} \cdot \frac{(n_{is} + j_s - j_i - k)!}{(n_s - j_i + 1)!}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D - n - 1)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{l_s - l + 1} \sum_{j_i = j_s + s - 1}^{n_{is} + j_s - n - k} \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{k = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} + j_{sa}^s - 2 \cdot j_{sa}^{ik} - n_{ik} - j_s - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$((D \geq n < n \wedge l_s > D - n + 1 \wedge$
 $2 - j_s \leq j_i - s + 1 \wedge$
 $j_s + s - 1 \leq j_i \leq n \wedge$
 $l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$
 $(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{POST} = \sum_{k=l}^{(j_i-s+1)} \sum_{j_s=l_s+n-D}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{l_s+s-l}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

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$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!}$$

$$\frac{(l_i - l_s + s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-l_k)}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - l_k)! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{SDOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{n} \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l_k} \\
 & \frac{(n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k}^{()}
 \end{aligned}$$

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$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - l_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$D + l_s + s - \mathbf{n} - l_i + 1 \leq l \leq D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$D + l_s + s - \mathbf{n} - l_i + 1 \leq l \leq D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$D + l_s + s - \mathbf{n} - l_i + 1 \leq l \leq D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D - \mathbf{n} + 1 \leq l \leq D - \mathbf{n} + 1 \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$s: \{j_{sa}^s, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
 &\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
 &\frac{(n_{i_s} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 &\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 &\sum_{n_{ik}=n_{i_s}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()} \\
 &\frac{(2 \cdot n_{i_s} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - l_k)!}{(2 \cdot n_{i_s} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - l_k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge I = k \geq 0 \wedge$$

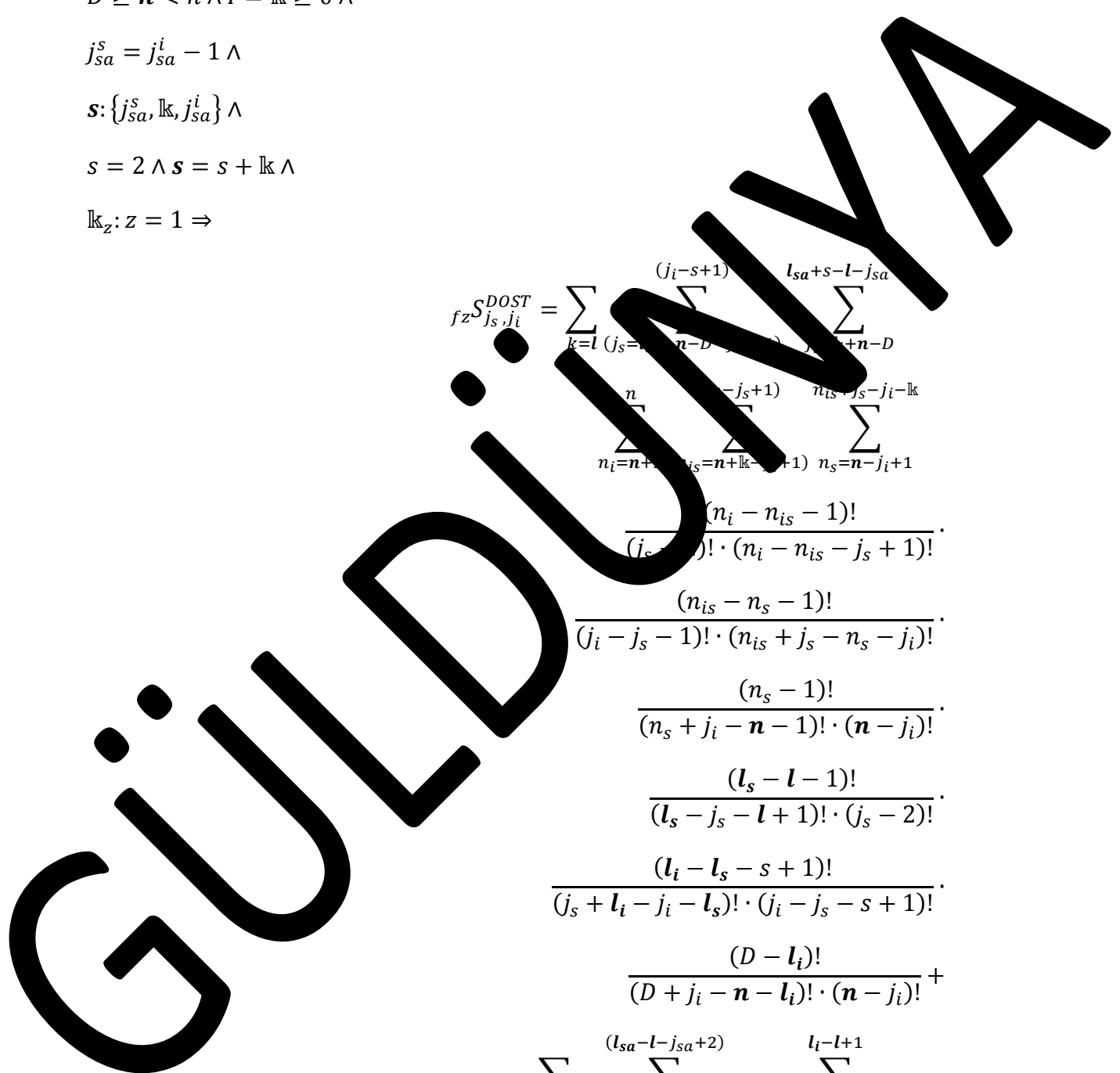
$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{(j_i=l_{sa}+s-l-j_{sa})}^{l_{sa}+s-l-j_{sa}} \sum_{(j_i=n-D)}^{j_i+n-D} \sum_{(n_i=n+l_k)}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{n_i-j_s+1} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_i=l_{sa}+s-l-j_{sa}+2)}^{l_i-l+1} \sum_{(n_i=n+l_k)}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+1)}^{n_{is}+j_s-j_i-k}$$



$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{j_s+1} \sum_{j_s=j_i-1}^{()} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{k=n_{is}+j_{sa}^s-j_{sa}^{ik} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{lk})}^{()} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \cdot j_s - j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{=l_i+n-D}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_s+1)}^{(n_i-j+1)} \sum_{n_s=n-j_i+1}^{n_{is}=n-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(n_i - j_s + 1)!} \cdot \frac{(n_i - n_s - 1)!}{(n_i - j_s + 1)!} \cdot \frac{(j_i - n_{is} - 1)!}{(n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s - j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{j_i=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - j_s + 1)!}$$

$$\frac{(n_{is} - 1)!}{(j_i - 1)! \cdot (n_{is} - j_s - n_s - j_i)}$$

$$\frac{(n_s - 1)!}{(n_s + 1 - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_s - l_s + 1)!}{(j_s + 1 - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DG} = \sum_{l=1}^{j_s - s + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}^{l_{ik} + s - l - j_{sa}^{lk} + 1} \sum_{n_i = n + k}^n \sum_{n_{is} = n + k - j_s + 1}^{n_i - j_s + 1} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

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$$\begin{aligned}
 & \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)} \\
 & \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - l_k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{j_s=l_{ik}+1}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1}$$

$$\sum_{n_i=n+k}^n \sum_{n_{is}=n+k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)}$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{n - l_s - j_{sa} - 1} \sum_{j_i = j_s + s - 1}^{n - l_s - j_{sa} - k} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{\mathbb{k} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{()} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} - 2 \cdot j_{sa}^s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D - n + 1 - s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa}^s = j_{sa}^i - 1 \wedge$

$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$

$s = 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+n-j_{sa}+1} \sum_{n_i=n+\mathbb{k}-j_s}^{n} \sum_{n_s=n-j_i+1}^{n_i} \frac{(n_i - j_s - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(j_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

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$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i - l_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \geq l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \dots \geq 0 \wedge$$

$$j_{sa}^s = j_s - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\}$$

$$s = \dots \wedge \dots = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 = \dots$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(n - l_i)!}{(n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_s+l-k}^{(j_s+l-k)} \sum_{j_i=l_s+s-l+1}^{j_{sa}+1}$$

$$\sum_{n+l-k}^n \sum_{n+l-k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s)}^{(\quad)}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_s - j_s - s)!}$$

$$\frac{(l - l - 1)!}{(l_s - j_s - l - 1)! \cdot (l - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} = & \sum_{k=l} \sum_{(j_s=l_{sa}+n-D)}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{(l_s - l - 1)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1}$$

$$\sum_{n_i = n + k}^n \sum_{(n_{is} + k - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{is} - j_{sa}^{ik} - (n_{ik} + j_s + j_{sa}^{ik} - k)}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^{is} - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - 1)! \cdot (n + j_s - j_s - s)!}$$

$$\frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i - n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{is} - j_{sa}^{ik} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i - n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{is} - j_{sa}^{ik} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l-1)} \sum_{j_i=l+n-D}^{l_{sa}+s-1} \sum_{j_s=j_s+n+s-D-j_{sa}}^{l_{sa}+s-1} \frac{(n_i - j_s - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s-l-1)} \sum_{j_s=l_{sa}+n-D-j_{sa}+1}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{()}^{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l \neq i \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge \mathbf{s} = s + 1 \wedge$$

$$\mathbb{k} = z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=s+1}^1$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l - l + 1} \sum_{j_i=l_{ik}+s}^{j_{sa}^{ik}+2}$$

$$\sum_{n_i=n-k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i - j_s + 1)} \sum_{n_s=n-j_i+1}^{j_i - k}$$

$$\frac{(n_i - j_s + 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - j_s + 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=s+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{()}$$

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$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i - l_i)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l \neq i \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_i - l + 1} \sum_{j_i=j_s+s-1}^{l_i - l + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i - j_s + 1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i+l_k)}^{(n_{ik}+j_s+j_{sa}^{ik}-j_i+l_k)} \frac{(2 \cdot n_{is} + j_{sa}^{is} - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq l \wedge$

$l_s - j_{sa}^{ik} + 1 \leq l_s \wedge l_i - j_{sa}^{ik} - s > l_{ik} \wedge$

$D + s - n < l_i \leq l_s + 1 \wedge$

$D \geq n < n \wedge l = l_k \geq 1 \wedge$

$j_{sa}^s = j_{sa}^l - 1 \wedge$

$s: \{1, \dots, j_i\} \wedge$

$s = 2 \wedge s = j_s + l_k \wedge$

$l_k = 1 \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)} \sum_{j_i=l_i+n-D}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s - l + 1)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{s=2}^{(l_{ik} - j_{s\bar{a}}^{ik} + 2)} \sum_{j_i=l_{ik}+s-l-j_{s\bar{a}}^{ik}+2}^{l_i-l+1} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\sum_{k=l} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_{ik+s-l}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_i=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{lk})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \dots)}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \dots) \cdot (n + j_{sa}^s - \dots)!}$$

$$\frac{(l_s - l + 1)!}{(l_s - l + 1) \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_i \wedge l_i + j_{sa}^{ik} - \dots \wedge l_{ik} \wedge$

$D + \dots n < l_i \leq \dots l_s + s - n - \dots$

$D > n < n \wedge \dots l_k \geq 0$

$j_{sa}^s = j_{sa}^i - 1 \wedge$

$\{j_{sa}^s, l_k, \dots\} \wedge$

$s = 2 \wedge s = s$

$l_{k_z} \cdot z = 1$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l} \sum_{(j_s=2)}^{(l_i+n-D-s)} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_i=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(n - l_i)!}{(n - j_i - n + l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{n-l} \sum_{(j_s=l_i+n-k-s+1)}^{(l_{ik}-l-j_{sa}^{ik})} \sum_{j_i=j_s+s-1}^{l+1}$$

$$\sum_{n-l}^n \sum_{n_{is}=n+l-k-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

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$$\frac{\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(\)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_s - j_s - s)!} \cdot \frac{(l - l - 1)!}{(l_s - j_s - l - 1)! \cdot (l - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$

$2 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_s < s > l_{ik} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n \wedge l = i \wedge l_s \geq 0 \wedge$

$j_s = j_{sa}^i - 1 \wedge$

$s: \{ \mathbb{k}, j_{sa}^i \} \wedge$

$l = 2 \wedge l_s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(n - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{(l_{ik} - l_{jsa}^{ik} + 2)} \sum_{i_s=l_i+1}^{i_s+l-1} \sum_{j_s=s-1}^{j_s+l-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{i_k=n_{is}+j_{sa}^s-j_{sa}^{ik} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \frac{(2 \cdot n_{is} + j_{sa}^{ik} - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_s + s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_s}^{l_s+s-l}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s + j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i + l_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-l+1}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{\substack{j_s=j_i-s+1 \\ j_i=l_{ik}+n+l_s-j_s+1}}^{()} \sum_{\substack{l_s+s-l \\ D-j_{sa}^{ik}}} \sum_{\substack{n \\ n_i=n+l_s-j_s+1}} \sum_{\substack{n_{is}=n+l_s-j_s+1 \\ n_{ik}=n_{is}-j_{sa}^{ik} (n_{is}-j_{sa}^{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-\mathbb{k})}} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_s - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n + l_s \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_i \leq j_i - s + 1$$

$$j_i + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_i \wedge l_{ik} - j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D - s - 1 \leq l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n + l_s \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s - j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_{j_s, j_i}^{S_{DOST}} = & \sum_{k=l}^{(l_{ik}+n-D-j_{s\bar{a}}^{ik})} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{s\bar{a}}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{s\bar{a}}^{ik}}^{n_i+j_s-j_i-k} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D - j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{s\bar{a}}^{ik}+1)}^{l_{ik}+s-l-j_{s\bar{a}}^{ik}+1} \sum_{j_i=j_s+s-1}^{n_i+j_s-j_i-k} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)} \sum_{j_i = j_s + s - 1} \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(n_{is} + j_{sa}^s - j_{sa}^{ik} - k)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - j_{sa}^{ik} - s - 1)!} \frac{(l_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq j_s \wedge$$

$$l_{ik} + j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} \leq l_{ik} \wedge$$

$$D + s - n < l_i \leq D + j_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge k \geq 1 \wedge$$

$$j_{sa}^s \leq j_{sa}^{ik} + 1 \wedge$$

$$s: \{j_{sa}^s, k, j_i\} \wedge$$

$$s = z \wedge S = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = 2)}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{j_i = l_{ik} + n + s - D - j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l - l_s - s - 1)!}{(j_s + l_i - l_s - l - s + 1)! \cdot (i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{i=l}^{(l_s-l+1)} \sum_{(i_{ik}+n-D-j_{sa}^{ik}+1)} \sum_{j_i=j_s+s-1}^{(l_s-l+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i \wedge$$

$$s \cdot \{j_{sa}^i, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

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$$\begin{aligned}
 f_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}^{l_s+s-l} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
 &\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
 &\frac{(n_{i_s} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{i_s}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-l_k} \\
 &\frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
 &\frac{(n_{i_s} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} + j_s - n_s - j_i)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
 \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{()} \sum_{(j_s=j_{i-s+1})}^{l_s+s-l} \sum_{j_i=s+1}^{l_s+s-l} \sum_{n_i=n+k}^n \sum_{(n_{is}+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-k)}^{()} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - 1)! \cdot (n + j_s - j_s - s)!} \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1}^{(l_s-l+1)}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - 1)! \cdot (n + j_{sa}^s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - n)!}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n \leq l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n \leq l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOS} \sum_{k=l}^{s+1} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{l_s+s-l} \sum_{n_i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{(n_s-1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()} \\
 & \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - l_k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k \geq 1 \wedge$$

$$j_{sa}^s = j_s - 1 \wedge$$

$$s: \{j_{sa}^s, k, j_i^s\} \wedge$$

$$s - j_{sa}^s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{(l_s-l+1)} \sum_{i=l_i+n-D-s+1}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_i=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \dots)}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \dots) \cdot (n + j_{sa}^s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - l + 1) \cdot (j_s - 2)!}$$

$$\frac{(D - \dots)}{(D + j_{sa}^s - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1))$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{(j_s+1)} \sum_{j_i=j_s+s-1}^{(j_s+1)} \sum_{n_i=n}^{(n+j_s+1)} \sum_{(n_i+k-j_i-j_{sa}^s-k)}^{()} \frac{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n_{sa}^{ik-k}) \cdot (n + j_{sa}^s - j_s - s)!}{(l_s - l - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq l \wedge l_s \leq D - s + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i - n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge n_{sa}^{ik} + j_{sa}^{ik} - l_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$D + s - 1 < l_i \leq D + s - n - 1 \wedge$

$D \geq n < n \wedge l \neq l \wedge$

$j_{sa}^s = j_{sa}^l \wedge$

$\{j_{sa}^s, l_{sa}^s\} \wedge$

$s = 2 \wedge s = s + k \wedge$

$k_z: z = 1 \Rightarrow$

$$\begin{aligned}
fz S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1) l_{sa}+s-l-j_{sa}+1} \sum_{(j_s=2)} \sum_{j_i=l_i+n-D} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
&\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{l_i-l+1} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_{is}+k-j_s+1)}^{(n_{ik}+j_s+j_{sa}^{ik}-k)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - 1)! \cdot (n + j_s - j_s - s)!} \frac{(l_s - l)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq -n + 1$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq \wedge$

$l_s - j_{sa}^{ik} + \dots = l_s \wedge l_{sa}^{ik} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$D + s - n < l_i \leq \dots + l_s + \dots = n - 1 \wedge$

$D \geq n < n \wedge l = k \geq \wedge$

$j_{sa}^s = j_{sa}^i - \wedge$

$s: \{ \dots \} \wedge$

$s = 2 \wedge s = \dots + k \wedge$

$k \geq \dots \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=1}^{l_s-l-j_{sa}+2} \sum_{j_i=l_i+n-D-s+1}^{l_s-l-j_{sa}+2} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}^{(n-j_s+1)} \sum_{n_i=n+k}^{(n_i=n+k-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik})} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - j_{sa}^{ik} - s)!} \frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$

$D + l_s + s - n - l_i + 1 \leq l_s$

$1 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s + j_{sa}^{ik} - j_{sa}^{ik} = l_s + j_{sa} - s > l_{sa} \wedge$

$D - s - n < l_s \leq D + l_s - s - n - 1 \wedge$

$D \geq n < n \wedge l = k = 0 \wedge$

$l_{sa} = j_{sa}^{l_s} - 1 \wedge$

$s: \{j_s^s, k, j_{sa}^i\}$

$s = 2 \wedge s = s + k \wedge$

$k; z = 1$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(1 - l_s - s + 1)!}{(j_s + l_i - l - l_s - i_i - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=1}^{l_s - l - j_{sa} + 2} \sum_{i_i=l_i+n-D-s+1} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \\
 & \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^S_{j_s, j_i}^{DOST} = \sum_{l=1}^{(j_i+1)} \sum_{(j_s=2)}^{l_{ik}+1} \sum_{j_i+l_{ik}+n+s-D-j_{sa}}^{1} \\ \sum_{j_i+l_{ik}+n+s-D-j_{sa}}^{n} \sum_{(n_{is}=n+l_{ik}-j_s+1)}^{(n_{is}-1)} \sum_{n_s=n-j_i+1}^{+j_s-j_i-\mathbb{k}} \\ \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\ \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\ \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\ \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\ \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\ \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\ \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2} \\ \sum_{n_i=n+l_{ik}}^n \sum_{(n_{is}=n+l_{ik}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\begin{aligned}
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - n - 1)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=0}^{n_{is} - n_s} \sum_{l=0}^{n_{is} - n_s - k} \sum_{m=0}^{n_{is} - n_s - k - l} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \\
& \sum_{\mathbb{k} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{(n_i - j_s + 1)} \\
& \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} - 2 \cdot j_{sa}^s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n - l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 - j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-\mathbb{k})}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^k+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-\mathbb{k})}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!}$$

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$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l_s - s)} \sum_{j_s=l_{sa}+n_{ik}-j_{sa}+1}^{j_s+l_{sa}+n_{ik}-j_{sa}+1} \sum_{j_i=j_s+1}^{n} \sum_{n_i=n+k}^{(n_i-j_s+1)} \sum_{n_{is}=n+k}^{(n_{is}-j_s+1)} \sum_{n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{is}+j_{sa}^s-j_{sa}^{ik})} \sum_{n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k}^{(n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - n - j_{sa}^s - k)!}{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - n - j_{sa}^s - k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_s}^{(n_i-j_s+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-1)}^{(n_i-j_s+1)} \sum_{n_s=j_i+1}^{+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_{is}-1)!}{(j_s-2)! \cdot (n_{is}-j_s+1)!} \cdot \frac{(n_s-1)!}{(n_i-j_s)! \cdot (n_{is}-j_i)!} \cdot \frac{(n_s-1)!}{(n_i+j_i-1)! \cdot (n-j_i)!} \cdot \frac{(l_s-l-1)!}{(l_s-j_s-l+1)! \cdot (j_s-2)!} \cdot \frac{(l_i-l-s+1)!}{(j_s+l_i-j_i-l_s)! \cdot (j_i-j_s-s+1)!} \cdot \frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} \geq 2 \wedge$$

$$j_{sa}^s = i_{sa} - 1) \wedge$$

$$s: (j_{sa}^s, \mathbb{k}, j_{sa}^s) \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{j_s=2}^{(l_s-l+1)} \sum_{j_i=l_s+s-l+1}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l} \sum_{\binom{()}{j_s=j_i-s+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_s+s-l}$$

$$\sum_{n_i=n+k}^n \sum_{\binom{()}{n_i=n+k-j_s+1}}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik}}}^{(n_i-j_s+1)}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - l)! \cdot (n + j_{sa}^s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - n)!}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1) \vee$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n \leq l_i \leq D + l_s + s - n - 1) \vee$$

$$((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1) \wedge$$

$$1 \leq j_s \leq j_i - s + 1) \vee$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n \leq l_i \leq D + l_s + s - n - 1) \vee$$

$$((D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1) \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^l - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^l\} \wedge$$

$$s = 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=z)}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{j_i=l_{sa}+n+s-j_{sa}}^{(n_i-j_s)} \sum_{n_i=n+l_k}^{(n_{is}+j_s-j_i-k)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_{sa}+s-l-j_{sa}+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{n_i=n+l_k}^{(n_{is}+j_s-j_i-k)} \sum_{n_s=n-j_i+1}^{(n_{is}+j_s-j_i-k)} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

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$$\frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{l_s-l} \sum_{n_{sa}+n_{sa}^{ik}+\dots+n_{sa}^{ik}+n_{sa}^{ik}=j_s+s-1} \sum_{n_{i_1}=n_{i_1}+k}^n \sum_{n_{is}=n+l_k-j_s+1}^{(n_{i_1}-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik}}^{(n_{is}=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)} \frac{(2 \cdot n_{is} + j_{sa}^{ik} - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_{sa}^{ik} - n_{ik} - j_{sa}^{ik} - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D > n < n) \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq l_i - 1 \wedge$$

$$l_i - j_s - s \leq l \leq l_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = s + 1$$

$$\mathbb{k} = z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{(j_i=j_s+s-1)}^{(l_s-l-1)}$$

$$\sum_{n_i=n}^n \sum_{(n_{is}=n+k-j_s+1)}^{(l_s-l-1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{(l_s-l-1)} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(l_s-l-1)}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_{sa}^{ik} - n - j_{sa}^{ik} - s - 1)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$(D \geq n < n + l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n + l = l_i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s = 2 \wedge s = \dots + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=0}^{\binom{()}{j_s=1}} \sum_{j_i=s}^{l_i - i^{l+1}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_s=n-j_i+1)}^{(n_i-j_i-\mathbb{k}+1)} \frac{(n_i - n_s - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(l_i - j_i - l_s + 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$\sum_{k=l}^{(j_i - s + 1)} \sum_{j_i = l_i + n - D}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n_i - j_s - j_{sa}^{ik})}^{(n_s = n_{ik} + j_s - j_{sa}^{ik} - \mathbb{k})} \frac{(2 \cdot n_i - n_{ik} - 2 \cdot j_s - s - j_{sa}^{ik} - \mathbb{k} + 3)!}{(2 \cdot n_i - n_{ik} - j_s - j_{sa}^{ik} - \mathbb{k} + 2)! \cdot (n - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq n < n \wedge l_i - l_s > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^s - \mathbb{k} \wedge j_{sa}^s \leq j_i - s - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \wedge s: \{j_{sa}^s, \dots, j_{sa}^{ik}, j_{sa}^s\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 =$$

$$fz^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(j_i - s + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)}^{(j_i - s + 1)} \sum_{j_i = l_i + n - D}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s = n - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=1}^{(l_i - l - j_{s\bar{a}}^{ik} + 2)} \sum_{j_s = l_{ik} + j_s - j_{s\bar{a}}^{lk} + 1}^{l_i - l + 1} \sum_{n_i = n + \mathbb{k}}^{n_{is} + j_s - j_i - \mathbb{k}} \sum_{n_s = n + \mathbb{k} - j_s + 1}^{n_s = n - j_i + 1}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{()} \sum_{j_s = j_i - s + 1}^{l_{ik} + s - l - j_{s\bar{a}}^{ik} + 1} \sum_{j_i = l_i + n - D}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()}^{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+l_k}^{j_i-l_k}$$

$$\frac{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_k)!}$$

$$\frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}$$

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$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i - l_i)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$D + l_s + s - \mathbf{n} - l_i + 1 \leq l \leq D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} C_{s, j_i}^{ST} &= \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{l_i-l+1} \sum_{j_i=l_i+\mathbf{n}-D}^{l_i-l+1} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\ &\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \\ &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_i + n - D - s + 1)} \sum_{j_i = j_s - s}^n \sum_{n_i = n + j_s + 1}^{(n - j_s + 1)} \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - j_i - j_{sa}^{ik} - \mathbb{k}}^{(n + j_s + 1)} \frac{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})!}{(n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i - n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - j_i = l_{ik} \wedge$

$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_i - 1 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge$

$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$2 \wedge j_s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l} \sum_{(j_s = l_s + n - D)}^{(j_i - s + 1)} \sum_{j_i = l_{ik} + n + s - D - j_{sa}^{ik}}^{l_s + s - l}$$

$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s - 1)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=0}^{(l_s-l+1)} \sum_{s=l_s+n-D}^{l_{ik}+s-l-j_s^{ik}+1} \sum_{j_i=l_s+s-l+1}^{j_i=l_s+s-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

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$$\sum_{k=l}^{(\cdot)} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_i=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{(\cdot)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik})}^{(n_i-j_s+1)}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \dots)}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \dots) \cdot (n + j_{sa}^s - \dots)!} \cdot \frac{(l_s - 1)!}{(j_s - 2)!} \cdot \frac{(D - l_i)}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - \dots = l_{ik} \wedge$

$D \geq n < n \wedge I = \dots = 0 \wedge$

$j_{sa}^i = j_{sa}^i - 1, j_{sa}^s \leq j_{sa}^i - 1 \wedge$

$s: \{ \dots, l_k, j_{sa}^i \} \vee \{ j_{sa}^s, \dots, j_{sa}^i, j_{sa}^i \} \wedge$

$> 2 \wedge \dots = s + l_k \wedge$

$l_{z}: z = 1 \Rightarrow$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(\cdot)} \sum_{(j_s=l_s+n-D)}^{l_{ik}+n-D-j_{sa}^{ik}} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_s^k+1)}^{(l_{ik}+s-l-j_s^k+1)} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i-k}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_{is}+j_s-j_i-k)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(i - l)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_s^k+1)}^{(l_{ik}+s-l-j_s^k+1)} \sum_{j_i=j_s+s-1}^{n_{is}+j_s-j_i-k}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_{is}+j_s-j_i-k)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

- $((D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee$
- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$
- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $(l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$
- $D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $j_{sa}^{ik} = j_{sa}^{l_{ik}} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$
- $s: \{j_{sa}^s, \dots, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$
- $s > 2 \wedge s = s + \mathbb{k} \wedge$
- $\mathbb{k}_z: z = 1 \Rightarrow$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l} \sum_{(j_s=l_s+n-D)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_s+s-l}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
& \sum_{j_s=l_s+n-D}^{(l_s-l+1)} \sum_{j_i=l_s+s-l+1}^{l_i-l+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
\end{aligned}$$

$$\sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l}$$

$$\sum_{n_i=n+k}^n \sum_{(n_i=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - 1)! \cdot (n + j_{sa}^s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - 1)!}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik})) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^l - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_s+n-D)}^{l_i-l+1} \sum_{j_i=l_i+n}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_i+n-D-s+1}^{j_s+s-1} \sum_{n_i=n}^n \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}} (2 \cdot n_{ik} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)! \cdot (2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_{sa}^{ik} - n - j_{sa}^{ik})! \cdot (n + j_{sa}^s - j_s - s)! \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\begin{aligned} & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \vee \\ & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\ & D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge \\ & 2 \leq j_s \leq j_i - s \wedge \\ & j_s + s \leq j_i \leq n \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik}) \vee \end{aligned}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{SD} = \sum_{l=1}^{(l_s-l+1)} \sum_{(j_s=l_s-l-D)}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_i-j_s+1} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1}$$

$$\frac{\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{(\cdot)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_s - j_s - s)!} \cdot \frac{(l - l - 1)!}{(l_s - j_s - l - 1)! \cdot (l - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_i - j_{sa}^{ik} = l_{ik} \wedge l_{sa} - s > \dots \wedge$

$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$

$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \cap \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s \cdot 2 \wedge s = \dots \wedge$

$\mathbb{k}_z = 1 \Rightarrow$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+k)}^{(l_i-l)} \sum_{(j_i=l_{sa}+s-l-j_s+k)}^{(n-j_s+1)} \frac{(n_i - j_s + k)! \cdot (n_{is} + j_s - j_i - k)!}{(j_s - 2)! \cdot (n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^{(n_i-j_s+1)} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{()}^{()} (n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})!$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} \wedge l_i + j_{sa}^s - s > l_{sa}^{ik}$

$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$

$s > 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$fz^{S_{j_s, j_i}^{DOST}} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\begin{aligned}
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{n_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-1)}^{(n_i-j_s+1)} \sum_{(n_s=n-j_i+l_k)}^{j_i-l_k} \\
 & \frac{(n_{is}-1)!}{(j_s-1)! \cdot (n_i - n_{is} + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n - j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()}
 \end{aligned}$$

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$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s > D - n + 1 \wedge$

$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$

$2 \leq j_s \leq j_i - s \wedge$

$j_s + s \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - j_{sa}^{ik} = l_{ik} - j_{sa}^{ik} + 1$

$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$

$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

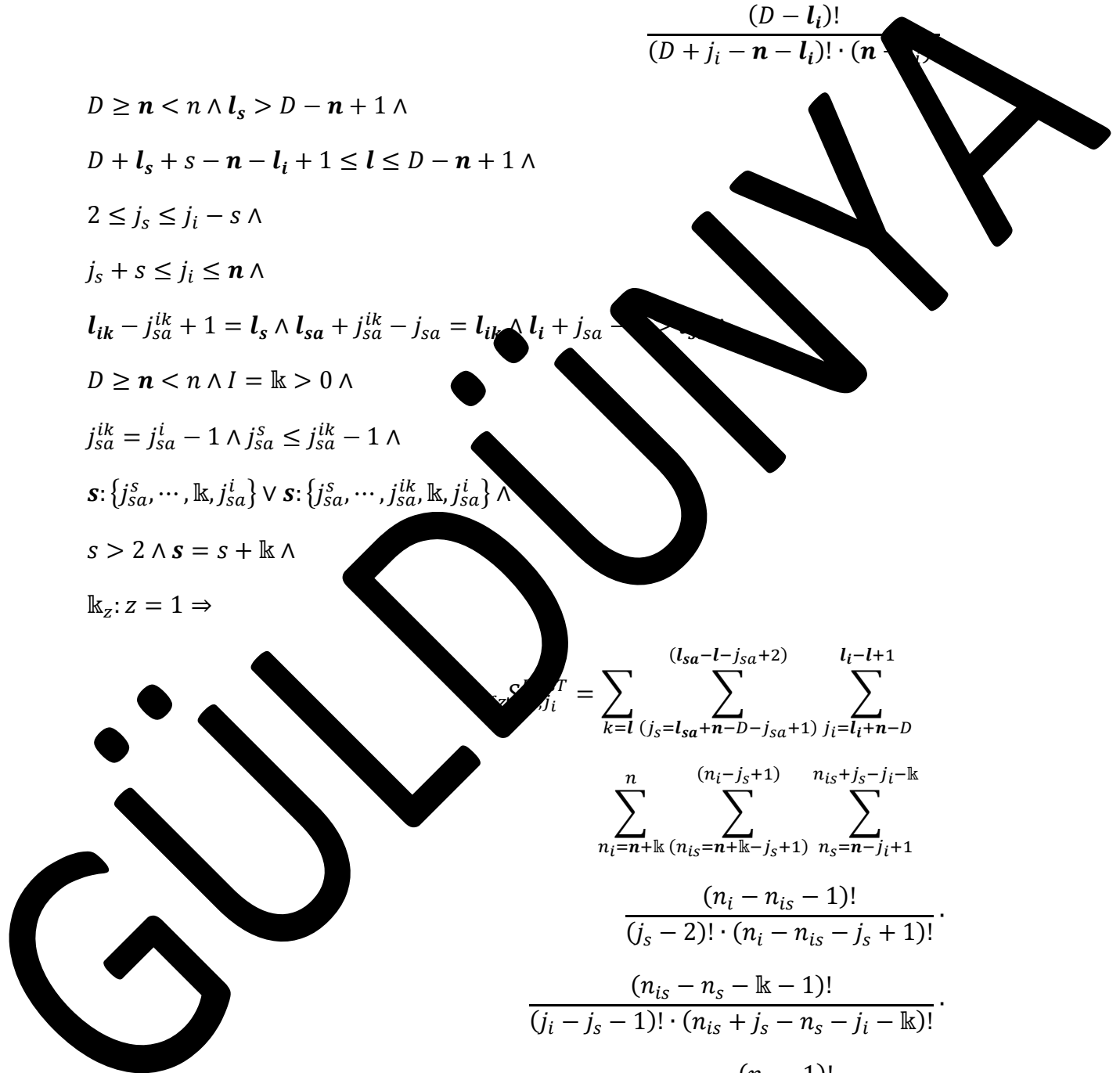
$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$

$s > 2 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\sum_{k=l}^{l_{sa}-l-j_{sa}+2} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$



$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=l}^{(l_{sa} - l - j_{sa} + 2)} \sum_{(j_s = l_i + n - D - s + 1)}^{j_i = j_s + s - 1} \sum_{n_i = n - j_s + 1}^n \sum_{n_{ik} = n_{is} + j_s - j_{sa} - s - k}^{n_{ik} + j_s - j_{sa} - s - k} \frac{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n_{ik} - k)!}{(n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge n_{ik} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$n \geq n < n \wedge l = k > 0$$

$$j_{sa}^{ik} = j_{sa}^{i-1} \wedge j_{sa}^{ik} = j_{sa}^{i-1} \wedge$$

$$S: \{j_{sa}^s, \dots, j_{sa}^i\} \vee S: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$j_{sa}^{ik} > 2 \wedge j_{sa}^{ik} + s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_{zS}^{DOST}_{j_s, j_i} = \sum_{k=l}^{(j_i - s + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)}^{j_i = l_{sa} + n + s - D - j_{sa}} \sum_{l_{ik} + s - l - j_{sa}^{ik} + 1}^{l_{ik} + s - l - j_{sa}^{ik} + 1}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^l \sum_{(j_{sa}^{ik}+1)}^{(l_{ik}-l-s+2)} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -
 \end{aligned}$$

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$$\sum_{k=l} \sum_{\binom{()}{j_s=j_i-s+1}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{n_i=n+l_k}^n \sum_{\binom{()}{n_{is}=n+l_k-j_s+1}}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{\binom{()}{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^{ik}}}^{(n_i-j_s+1)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - l_k) \cdot (n + j_{sa}^s - j_{sa}^{ik} - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - l + 1) \cdot (j_s - 2)!} \cdot \frac{(D - l_k)!}{(D + j_s - n - l_k)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} > l_{ik} \wedge l_{sa} - j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = l_{sa} - 0 \wedge$$

$$j_{sa}^s = j_{sa}^i - 1, j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{ \dots, l_k, j_{sa}^i \} \vee \{ j_{sa}^s, \dots, j_{sa}^i, j_{sa}^i \} \wedge$$

$$> 2 \wedge l_s - s + l_k \wedge$$

$$l_{k_z}: z = 1 \Rightarrow$$

$$f_z^{S_{j_s, j_i}^{DOST}} = \sum_{k=l} \sum_{\binom{()}{j_s=l_{ik}+n-D-j_{sa}^{ik}+1}}^{(l_{sa}+n-D-j_{sa})} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+l_k}^n \sum_{\binom{()}{n_{is}=n+l_k-j_s+1}}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - l)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(l_i)!}{(D + j_i - n - l_i)! \cdot (j_i)!} +$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{j_s=l_{sa} + n - D - j_{sa} + 1}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i=j_s + s - 1}^{n - j_s + 1} \sum_{n_i=n + \mathbb{k}}^{n - j_s + 1} \sum_{n_{is}=n + \mathbb{k} - j_s + 1}^{n_{is} + j_s - j_i - \mathbb{k}} \sum_{n_s=n - j_i + 1}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{j_s=l_{sa} + n - D - j_{sa} + 1}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i=j_s + s - 1}^{n - j_s + 1}$$

$$\sum_{n_i=n + \mathbb{k}}^n \sum_{n_{is}=n + \mathbb{k} - j_s + 1}^{(n_i - j_s + 1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$D + l_s + s - \mathbf{n} - l_i + 1 \leq l \leq D - \mathbf{n} + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_i + j_{sa} - s \wedge l_{sa} \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + 1 \wedge$$

$$\mathbb{k} : z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOST} = \sum_{k=l} \sum_{(j_s=l_{ik}+\mathbf{n}-D-j_{sa}^{ik}+1)}^{l_{ik}-l-j_{sa}^{ik}+2} \sum_{j_i=l_{sa}+\mathbf{n}+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)}^{j_{sa} + s - 1} \sum_{n_i = n - j_{sa} + k}^{n} \sum_{n_{is} = n + k - j_s + 1}^{n} \sum_{n_{ik} = n_{is} - j_{sa}^{ik} - j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k}^{n} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_s - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - j_s - s - k)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$
- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$
- $j_s + s - 1 \leq j_i \leq n \wedge$
- $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$
- $(D \geq n < n \wedge l_s > D - n + 1 \wedge$
- $2 \leq j_s \leq j_i - s + 1 \wedge$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{SDOST} = \sum_{k=l}^{(j_i-s)} \sum_{l_s+l}^{l_s+l} \sum_{j_i+n-D}^{j_i+n-D-j_{sa}} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{(j_s-j_i-\mathbb{k})} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_i - n_s - \mathbb{k} - 1)!}{(n_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{j_s=l_s+n-D}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s+s-l+1}^{l_s+l} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_s - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{\binom{D}{j_i - s + 1}} \sum_{\substack{\Delta \\ n_{is} = n + \mathbb{k} - j_s + 1}} \sum_{\substack{\Sigma \\ n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{s - \mathbb{k}}}} \sum_{n_i = n + \mathbb{k}}^n \sum_{\substack{(n_i - j_s + 1) \\ (n_{is} = n + \mathbb{k} - j_s + 1)}} \sum_{\substack{(\cdot) \\ n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{s - \mathbb{k}}}} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s + n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$((D \geq n < n) \wedge l_s > D - n + 1 \wedge$

$l_s > j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\}$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_{sa}+n)-j_{sa}} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 & \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +
 \end{aligned}$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - l_k - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-l_k)} \\
 & \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - l_k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$((D \geq n < n \wedge l_s > D - n + 1 \wedge$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq D - n + 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^i, \dots, \mathbb{k}, j_i\} \vee s: \{j_{sa}^i, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + 1$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z^{SDOST}_{j_s, j_i} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_s+n-D)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1) l_{ik}+s-l-j_{s\alpha}^{ik}+1} \sum_{(j_s=2)} \sum_{j_i=s+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s + j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_s - l - s + 1)!}{(j_s + j_i - l - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{s\alpha}^{ik}+2)} \sum_{(j_s=2)} \sum_{j_i=l_{ik}+s-l-j_{s\alpha}^{ik}+2}^{l_i-l+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{()} \sum_{(j_s=j_i-s+1)}^{l_{ik}+l-j_{sa}^{ik}+1} \sum_{j_i=l+1}^{()}$$

$$\sum_{n_i=n}^n \sum_{n_{is}=n+l_k-j_s+1}^{()}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}(n_{is}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_s - s - l)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - s)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D > n < n \wedge l \neq i \wedge l_i \leq D - n + 1 \wedge$
 $1 \leq i \leq j_i - s + 1 \wedge$
 $i + s - 1 \leq j_i \leq n \wedge$
 $l_{ik} - j_{sa}^{ik} + 1 \leq l \wedge l_{ik} - j_{sa}^{ik} - s > l_{ik} \wedge$
 $D > n < n \wedge l = k > 0 \wedge$
 $j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$
 $s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$
 $s > 2 \wedge s = s + k \wedge$
 $k_z: z = 1 \Rightarrow$

$$\begin{aligned}
f_z^{S_{j_s, j_i}^{DOST}} &= \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i}^{n_{is}+j_s-j_i-l_k} \\
&\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
&\frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - l_k)!} \cdot \\
&\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
&\frac{(l_s - j_s - l + 1)!}{(j_s - 2)!} \cdot \\
&\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (l_i - j_s - s + 1)!} \cdot \\
&\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
&\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1} \\
&\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
&\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{(\quad)} \\
&\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - l_k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
&\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
&\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 j_{sa}^{ik} &= \sum_{k=1}^{s+1} \sum_{l_i=2}^{s-l-j_{sa}^{ik}+1} \dots \\
 &= \sum_{n_i=n+\mathbb{k}}^n \sum_{n_s=n+\mathbb{k}-j_s+1}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-\mathbb{k}} \\
 &\quad \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 &\quad \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \\
 &\quad \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \\
 &\quad \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
 &\quad \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \\
 &\quad \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\quad \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_{ik}+s-l-j_{sa}^{ik}+2}
 \end{aligned}$$

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$$\begin{aligned}
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l - l_s - s - 1)!}{(j_s + l_i - l - l_s - j_i - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{l_i=j_s-j_i-s+1}^{()} \sum_{j_i=l_i+n-D}^{l_{ik}+s-l-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}^{()} \\
 & \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - l_k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_i+n-D-s+1)} \sum_{(j_s=0)}^{(j_s-1)} \sum_{j_i=l_i+n-D-s+1}^{(l_i+n-D-s+1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{(n_s+j_s-j_i-\mathbb{k})} \frac{(n_i - l_s - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_i-l+1)} \sum_{j_i=j_s+s-1}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_{is}+j_s-j_i-\mathbb{k})} \sum_{n_s=n-j_i+1}^n$$

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$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s + 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s + 1)!} \cdot \frac{(D - l_i)!}{(n - n - 1)! \cdot (n - j_i)!} \sum_{\substack{j_s = l_i + 1 \\ \dots \\ j_i = j_s + s - 1}}^{l_{ik} - l - j_{sa}} \sum_{n_i = n + \mathbb{k}}^n \sum_{n_{is} = n + \mathbb{k} - j_s + 1}^{(n_i - j_s + 1)} \sum_{n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{is} - \mathbb{k}}^{(n_s - j_s - l + 1)} \frac{(2 \cdot n_{is} + j_{sa}^{is} - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} - 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{is} - \mathbb{k})! \cdot (n + j_{sa}^{is} - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < r \wedge l \neq i \wedge l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$2 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=2}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=l+1}^{(l_{ik}-l-j_{sa}^{ik}+2)} \dots$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_s=n+\mathbb{k}}^{(n_i-j_s)} \sum_{n_i-j_i+1}^{(n_i-j_s)} \dots$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - n_{is} - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_s=l_i+n-D-s+1}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{j_i=j_s+s-1}^{(l_{ik}-l-j_{sa}^{ik}+2)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}-j_s+1}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}}^{()}$$

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$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i - l_i)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l \neq i \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} \sum_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_{ik}+\mathbf{n}+s-D-j_{sa}^{ik}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=\mathbf{n}-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\ &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\ &\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \\ &\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!} \\ &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \end{aligned}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_s+s-l+1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k)}^{(n_i-j_s+1)} \sum_{n_s=j_i+1}^{j_i+j_s-j_i-l_k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_i - n_{is} - l_k - 1)!}{(j_i - 1)! \cdot (n_i - n_{is} - j_s - l_k - 1)!} \cdot$$

$$\frac{(n_i - j_s - 1)!}{(n_i + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - l - 1)!}{(D - j_s - l + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{(\)} \sum_{(j_s=j_i-s+1)}^{l_s+s-l} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-l_k)}^{(\)}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - l_k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot$$

GÜLDÜNYA

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{SD} = \sum_{k=l}^D \sum_{(j_s=2)}^{D-j_{sa}^{ik}} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{l_{ik}+s-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\begin{aligned}
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{j_i = j_s + s - 1}^{n_{is} + j_s - j_i} \\
 & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{= n - j_i + 1}^{n_{is} + j_s - j_i} \\
 & \frac{(n_i - n_{is} - \mathbb{k} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - \mathbb{k} + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \\
 & \frac{(n_s - n_i - n - 1)!}{(n_s - n_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + 1)!}{(j_s - l - l_s)! \cdot (j_i - j_s - s + 1)!} \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} - \\
 & \sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)}^{(l_s - l + 1)} \sum_{j_i = j_s + s - 1}^{(l_s - l + 1)} \\
 & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \\
 & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{()} \\
 & \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}
 \end{aligned}$$

GÜLDÜMÜN

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOS} \sum_{k=l}^{l+1} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{ik}+n+s-D-j_{sa}^{ik}}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_{ik}+n-D-j_{sa}^{ik}+1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_i=n+k-j_s)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_{sa}^s-k)}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - k)}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - k) \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - l + 1) \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)}{(D + j_s - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + j_s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z S_{j_s, j_i}^{DOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=s+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_i=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_i+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s - l + 1)} \sum_{(j_s = 2)}^{l_i - l + 1} \sum_{j_i = l_s + s - l + 1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{= n - j_i + 1}^{n_{is} + j_s - 1}$$

$$\frac{(n_i - n_{is} - \dots)}{(j_s - 2)! \cdot (n_{is} - \dots + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + \dots - n_s - j_i - \dots)}$$

$$\frac{(n_s - j_i - n - \dots - j_i)!}{\dots - l - 1)!}$$

$$\frac{\dots - j_s - \dots - 1)! \cdot (j_s - 2)!}{\dots}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s - l_i - \dots - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{(\dots)} \sum_{(j_s = j_i - s + 1)}^{l_s + s - l}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{(\dots)} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

GÜLDÜMÜYA

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - j_{sa}^{ik} + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$l_i - j_{sa}^{ik} + 1 \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=j_s+s-1} \\
 &\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+k}^{n_{is}+j_s-j_i-k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \\
 &\frac{(n_{is} - n_s - \mathbb{k})!}{(j_i - j_s - 1)! \cdot (n_{is} - j_s - n_s - j_i - \mathbb{k})!} \\
 &\frac{(n_s - 1)!}{(n - j_i)!} \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
 &\frac{(l_s - l_s - s + 1)!}{(n_i + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \\
 &\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)} \sum_{j_i=j_s+s-1} \\
 &\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 &\sum_{n_{ik}=n_{is}+j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{()} \\
 &\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

GÜLDENWA

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge \right.$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D - n < l_i \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_s+s-l} \sum_{j_i=l_i+n-D}^{n_i} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_k)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D - l_i - n - l_i)! \cdot (n - j_i)!} + \\
 &\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_s+s-l+1}^{n_i} \\
 &\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - l_k)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}
 \end{aligned}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{()} \sum_{j_i=l_i+n-D}^{l_s+s-l} \sum_{n_i=n+k}^n \sum_{(n_i-k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_{ik}+j_s+j_{sa}^{ik}-k)}^{()} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - 1)! \cdot (n + j_s - j_s - s)!} \frac{(l_s - l)}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n \wedge l \neq i) \wedge l \leq D - n + 1$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i) \wedge l \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i) \wedge l \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - s + 1 > l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{lk} = j_{sa}^l - 1 \wedge j_{sa}^s \leq j_{sa}^{lk} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{lk}, k, j_{sa}^i\}$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$j_{sa}^{DOST} = \sum_{k=l}^{(l_i+n-D-s)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{i_s}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{i_s}+j_s-j_i-k} \\
 & \frac{(n_i - n_{i_s} - 1)!}{(j_s - 2)! \cdot (n_i - n_{i_s} - j_s + 1)!} \cdot \\
 & \frac{(n_{i_s} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{i_s} - n_s - k - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-l+1)} \sum_{j_i=j_s+s-1}^{l_i-l+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{i_s}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{i_s}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{()} \\
 & \frac{(2 \cdot n_{i_s} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{i_s} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq {}_i l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq {}_i l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_i - s + 1 \leq l_s \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{DOST} = \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_i+n-D}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_i=n-j_i+1}^{n_{is}+j_s-j_i}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - \mathbb{k} + 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - n - 1)! \cdot (n - j_i)!}{(j_s - 1)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_s - l - 1)!}{(j_s + 1 - l - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}^{l_i-l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s - j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik} - j_i - j_{sa}^s - \mathbb{k})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

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$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$S_{j_s, j_i}^{DOST} = \sum_{(j_s=2)}^{(j_i-s+1)} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\begin{aligned}
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=2)}^{l_i-l+1} \sum_{j_i=l_{sa}+s-l-j_{sa}+2}^{l_i-l+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-l_k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - l_k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - l_k - 1)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - j_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s + s + 1)!}{(j_s + l_i - l - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 & \sum_{k=l}^{()} \sum_{(j_s=j_i-s+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_i+n-D}^{l_{sa}+s-l-j_{sa}+1} \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik}-l_k)}^{()} \\
 & \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - l_k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 & \sum_{k=1}^{D+l-n} \sum_{(j_s=2)}^{l+n-D} \sum_{j_i=l_i+n-D}^{l_i-l+1} \\
 & \sum_{n_i=n+k}^n \sum_{n_i=n+k-j_s+1}^{(n_i-j_s)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 & \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 & \frac{(n_{is} - n_s - k - 1)!}{(i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \\
 & \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
 & \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 & \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \\
 & \sum_{k=l}^{(l_{sa}-l-j_{sa}+2)} \sum_{(j_s=l_i+n-D-s+1)}^{l_i-l+1} \sum_{j_i=j_s+s-1}
 \end{aligned}$$

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$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \\
& \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
& \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - 1)!} \cdot \\
& \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(l - l_s - s - 1)!}{(j_s + l_i - l - l_s - i_i - s + 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
& \sum_{k=1}^{j_{sa}-l-j_{sa}+2} \sum_{i_i=l_i+n-D-s+1} \sum_{j_i=j_s+s-1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{()} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})} \\
& \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
& \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l \neq i_l \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i_l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$fz S_{j_s, j_i}^{DOS} \sum_{l=1}^{(l_{sa} - j_{sa} + 2)} \sum_{j_i=l_i+n-D}^{l_i-l+1} \sum_{n_i=n+1}^{n-j_s+1} \sum_{n_{is}=n+k-1}^{n_{is}-j_s-j_i-k} \sum_{n_s=n-j_i+1}^{n_{is}-j_s-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - k - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{sa} - l - j_{sa} + 2)} \sum_{(j_s=l_i+n-D-s+1)} \sum_{j_i=j_s+s-1} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

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$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k})} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa}^s - s = l_{sa}$$

$$D + s - n < l_i \leq D + l_s + s - n - 1$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + 1$$

$$\mathbb{k} - z = 1 \Rightarrow$$

$$fz_{j_s, j_i}^{SDOST} = \sum_{k=l}^{(j_i-s+1)} \sum_{(j_s=2)}^{l_{ik}+s-l-j_{sa}^{ik}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}} \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s=2)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i = l_{ik} + s - j_{sa}^{ik} + 2}^{j_{sa}^{ik} + 2}$$

$$\sum_{n_i = n - k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(j_s - 1)} \sum_{n_s = n - j_i + 1}^{j_i - k}$$

$$\frac{(n_i - n_s - k - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - k - 1)!}$$

$$\frac{(n_s - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!}$$

$$\frac{(n_s - 1)!}{(D + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=l}^{()} \sum_{(j_s = j_i - s + 1)}^{l_{ik} + s - l - j_{sa}^{ik} + 1} \sum_{j_i = l_{sa} + n + s - D - j_{sa}}$$

$$\sum_{n_i = n + k}^n \sum_{(n_{is} = n + k - j_s + 1)}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^s - k)}^{()}$$

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$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^s - j_s - s)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l \neq i \wedge l \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq \mathbf{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$= \sum_{k=l}^{(l_{sa} + \mathbf{n} - D - j_{sa})} \sum_{(j_s=2)}^{l_{sa} + s - l - j_{sa} + 1} \sum_{j_i=l_{sa} + \mathbf{n} + s - D - j_{sa}}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\sum_{n_i=\mathbf{n} + \mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_s=\mathbf{n} - j_i + 1}^{n_{is} + j_s - j_i - \mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

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$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s)}^{(n_i-j_s+1)} \sum_{n_i=j_i+1}^{(n_i+j_s-j_i-l_k)}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_i - l_s - l - 1)!}{(j_i - 1)! \cdot (n_i + j_s - l_s - j_i - l_k)!}$$

$$\frac{(n_i - j_s - 1)!}{(n_i + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(D - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-l_k)}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - l_k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - l_k)! \cdot (n + j_{sa}^s - j_s - s)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i \wedge l - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\}$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_s}^{DOS} = \sum_{k=l}^{(l_{ik}-l-j_{sa}^{ik}+2)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-\mathbb{k}}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \sum_{k=l}^{(l_{ik} - l - j_{sa}^{ik} + 2)} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)} \sum_{j_i = j_s + s - 1} \sum_{n_i = n + k}^n \sum_{(n_{is} + k - j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - k)}^{(n_{ik} + j_s + j_{sa}^{ik} - k)} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - 1)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - s - 1)!} \frac{(l_s - l - k)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1)$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$(l_{ik} - j_{sa}^{ik} + 1) > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$(l_{ik} - j_{sa}^{ik} + 1) > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$

$(D \geq n < n \wedge l \neq l_i \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_i - s + 1 \wedge$

$j_s + s - 1 \leq j_i \leq n \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$f_z^{SDOST} = \sum_{j_s=1}^{(j_i+1)} \sum_{(j_s=2)}^{j_s} \sum_{j_s+n+s-D-j_{sa}}^{j_s} \sum_{n_s=n-j_i+1}^{n_s+n-j_i-k} \frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_s - n_s - k - 1)!}{(j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - k)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} + \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_s+s-l+1}^{j_i} \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_s - 1)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(l_i - l_s - 1)!}{(j_s + l_i - j_i - 1)! \cdot (j_i - j_s - 1)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \sum_{k=0}^{\binom{D}{j_i - s + 1}} \sum_{\substack{\Delta \\ n_{is} = n + \mathbb{k} - j_s + 1}} \sum_{\substack{\Sigma \\ n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{s - \mathbb{k}}}} \sum_{n_i = n + \mathbb{k}}^n \sum_{n_{is} = n + \mathbb{k} - j_s + 1}^{(n_i - j_s + 1)} \sum_{n_s = n_{ik} + j_s + j_{sa}^{ik} - j_i - j_{sa}^{s - \mathbb{k}}}^{\binom{D}{j_s - 1}} \frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - \mathbb{k})!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$((D \geq n < n) \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1))$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$j_{sa}^{ik} = \sum_{k=l}^{(l_{sa}+n-D-j_{sa})} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{n} \sum_{(n_i=n+\mathbb{k})}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}-j_s+1)}^{n_{is}+j_s-j_i-\mathbb{k}} \sum_{n_s=n-j_i+1}^{(n_i - n_{is} - 1)!} \cdot \frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \frac{(n_{is} - n_s - \mathbb{k} - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} + j_s - n_s - j_i - \mathbb{k})!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot \frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k)}^{(n_i-j_s+1)} \sum_{n_s=j_i+1}^{j_s-j_i-k}$$

$$\frac{(n_{is} - 1)!}{(j_s - 2)! \cdot (n_{is} - j_s + 1)!}$$

$$\frac{(j_i - 1)! \cdot (n_{is} + j_s - 1 - k)!}{(n_{is} - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - l - 1)!}{(l_i - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_i - l_s - s + 1)!}{(j_s + l_i - j_i - l_s)! \cdot (j_i - j_s - s + 1)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^{ik})}^{()}$$

$$\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!}$$

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$$\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\left((D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l \neq i \wedge l_s \leq D - n + 1 \wedge$$

$$D + l_s + s - n - l_i + 1 \leq l \leq i - 1 \wedge$$

$$1 \leq j_s \leq j_i - s \wedge$$

$$j_s + s \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + s - n < l_i \leq D + l_s + s - n - 1) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_s, j_i}^{DOST} &= \sum_{k=l}^{(l_s-l+1)} \sum_{(j_s=2)}^{l_{sa}+s-l-j_{sa}+1} \sum_{j_i=l_{sa}+n+s-D-j_{sa}}^{l_{sa}+s-l-j_{sa}+1} \\
 &\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \sum_{n_s=n-j_i+1}^{n_{is}+j_s-j_i-k} \\
 &\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot \\
 &\frac{(n_{is} - n_s - k - 1)!}{(j_i - j_s - 1)! \cdot (n_{is} - n_s - k - 1)!} \cdot \\
 &\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (n - j_i)!} \cdot \\
 &\frac{(l_s - l + 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(l_i - l_s + s + 1)!}{(j_s + l_i - j_s - l_s)! \cdot (n - j_s - s + 1)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot \\
 &\sum_{k=l}^{(l_s-l-1)} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{(l_s-l-1)} \sum_{j_i=j_s+s-1}^{j_s+s-1} \\
 &\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k-j_s+1)}^{(n_i-j_s+1)} \\
 &\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{(n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-k)}^{(n_i-j_s+1)} \\
 &\frac{(2 \cdot n_{is} + j_{sa}^s - n_{ik} - j_{sa}^{ik} - s - k)!}{(2 \cdot n_{is} + 2 \cdot j_s - n_{ik} - j_s - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^s - j_s - s)!} \cdot \\
 &\frac{(l_s - l - 1)!}{(l_s - j_s - l + 1)! \cdot (j_s - 2)!} \cdot \\
 &\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}
 \end{aligned}$$

$$((D \geq n < n \wedge l = i \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_i + j_{sa}^{ik} - s > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_i \leq D + s - n \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s \leq j_i \leq n) \vee$$

$$(D \geq n < n \wedge l = l \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_i - s + 1 \wedge$$

$$j_s + s - 1 \leq j_i \leq n \wedge$$

$$l_i - j_{sa}^{ik} + 1 > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}, j_{sa}^i\} \vee s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i\} \wedge$$

$$s > 2 \wedge s = s + \mathbb{k} \wedge$$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$fz_{J_s, j_i}^{DOST} = \sum_{k=1}^n \sum_{l \in J_s}^{()} \sum_{j_i=s}^{l_i - l + 1} \sum_{n_i=n+k}^n \sum_{n_s=n-j_i+l}^{(n_i-j_i-k+1)} \frac{(n_i - n_s - \mathbb{k} - 1)!}{(j_i - 2)! \cdot (n_i - n_s - j_i - \mathbb{k} + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - 1)!} \cdot \frac{(l_i - l_s - s + 1)!}{(l_i - j_i - 1)! \cdot (j_i - s)!} \cdot \frac{(D - l_i)!}{(D + s - l_i)! \cdot (n - s)!} - \sum_{k=1}^n \sum_{l \in J_s}^{()} \sum_{j_i=s}^n \sum_{n_i=n}^n \sum_{(n_{ik}=n_i-j_s-j_{sa}^{ik})}^{()} \sum_{n_s=n_{ik}+j_s+j_{sa}^{ik}-j_i-j_{sa}^s-\mathbb{k}} \frac{(2 \cdot n_i - n_{ik} - 2 \cdot j_s - s - j_{sa}^{ik} - \mathbb{k} + 3)!}{(2 \cdot n_i - n_{ik} - j_s - n - j_{sa}^{ik} - \mathbb{k} + 2)! \cdot (n - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

GÜLDÜNYA

DİZİN

B

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.1.1.1.1/3-4

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.1.1.1/3-4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.1.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.1.1.2.1/3-4

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.1.2.1/3-4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.1.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.1.1.1/3-4

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.1.3.1/3-4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.1.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bir bağımsız durumlu simetrisinin son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.1.1.1.1/230-231

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.1.1.1/187-188

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.1.1.1/321

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bir bağımsız durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.1.1.2.1/230-231

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.1.2.1/187-188

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.1.2.1/321

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bir bağımsız durumlu bağımlı simetrisinin son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.1.1.1.1/230-231

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.1.3.1/187-188

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.1.3.1/321

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu simetrisinin son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.1.4.1.1/3-4

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.4.1.1/3-4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.4.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.1.4.2.1/3-4

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.4.2.1/3-4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.4.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımlı simetrisinin son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.1.4.3.1/3-4

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.4.3.1/3-4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.4.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bağımsız durumlu

simetrisinin son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.1.1.1/233

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.1.1/190

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.1.1/324-325

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bağımsız durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.1.1.2/233

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.1.2/190

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.1.2/324-325

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımlı simetrisinin son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.1.1.3/233

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.1.3/190

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.1.3/324-325

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.1.1.4/233

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.1.4/190

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.1.4/324-325

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.1.6.2.1/3-4

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.6.2.1/3-4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.6.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu

bağımlı simetrisinin son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.1.6.3.1/3-4

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.6.3.1/3-4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.6.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin durumuna bağlı

tek kalan simetrik olasılık,
2.3.3.1.1.1.1/118

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.1.1/80-81

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.1.1/165

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin durumuna bağlı

tek kalan simetrik olasılık,
2.3.3.1.1.1.2/118

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.1.2/80-81

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.1.2/165

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin durumuna bağlı

tek kalan simetrik olasılık,
2.3.3.1.1.1.3/118

tek kalan düzgün simetrik olasılık,
2.3.3.2.1.1.3/80-81

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.1.1.3/165

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin ilk ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.2.1.1.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.2.1.1.1/3-4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.2.1.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin ilk ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.2.1.2.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.2.1.2.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.2.1.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımlı
simetrisinin ilk ve son durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.2.1.3.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.2.1.3.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.2.1.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
simetrisinin ilk ve son durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.2.2.1.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.2.2.1.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.2.2.1.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımsız simetrisinin ilk ve son durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.2.2.2.1/3-4

tek kalan düzgün simetrik olasılık,
2.3.3.2.2.2.2.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.2.2.2.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımlı simetrisinin ilk ve son durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.2.2.3.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.2.2.3.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.2.2.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumlu
simetrisinin ilk ve son durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.2.4.1.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.2.4.1.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.2.4.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumlu
bağımsız simetrisinin ilk ve son durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.2.4.2.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.2.4.2.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.2.4.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumlu
bağımlı simetrisinin ilk ve son durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.2.4.3.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.2.4.3.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.2.4.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
simetrisinin ilk ve son durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.2.6.1.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.2.6.1.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.2.6.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
bağımsız simetrisinin ilk ve son durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.2.6.2.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.2.6.2.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.2.6.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
bağımlı simetrisinin ilk ve son durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.2.6.3.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.2.6.3.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.2.6.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumlu
simetrisinin ilk ve son durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.2.7.1.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.2.7.1.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.2.7.1.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumlu
bağımsız simetrisinin ilk ve son durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.2.7.2.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.2.7.2.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.2.7.2.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımlı simetrisinin ilk ve son durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.3.2.7.3.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.3.2.7.3.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.3.2.7.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu simetrisinin ilk
ve herhangi bir durumunun bulunabileceği
olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.3.1.1.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.3.1.1.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.3.1.1.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımsız
simetrisinin ilk ve herhangi bir durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.3.1.2.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.3.1.2.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.3.1.2.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımlı
simetrisinin ilk ve herhangi bir durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.3.1.3.1.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.3.1.3.1.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.3.1.3.1.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
simetrisinin ilk ve herhangi bir durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.3.2.1.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.3.2.1.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.3.2.1.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımsız simetrisinin ilk ve herhangi bir
durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.3.2.2.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.3.2.2.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.3.2.2.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımlı simetrisinin ilk ve herhangi bir
durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.3.2.3.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.3.2.3.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.3.2.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu simetrisinin
herhangi iki durumuna bağlı

tek kalan simetrik olasılık,
2.3.3.1.4.1.1.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.4.1.1.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.4.1.1.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımsız
simetrisinin herhangi iki durumuna bağlı

tek kalan simetrik olasılık,
2.3.3.1.4.1.2.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.4.1.2.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.4.1.2.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımlı
simetrisinin herhangi iki durumuna bağlı

tek kalan simetrik olasılık,
2.3.3.1.4.1.3.1/4

tek kalan düzgün simetrik olasılık,
2.3.3.2.4.1.3.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.4.1.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu simetrisinin her
durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.4.1.1.1/839-840

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımsız
simetrisinin her durumunun bulunabileceği
olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.4.1.2.1/839-840

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımlı
simetrisinin her durumunun bulunabileceği
olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.4.1.3.1/839-840

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu simetrisinin ilk
ve herhangi iki durumunun bulunabileceği
olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.5.1.1.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.5.1.1.1/4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.5.1.1.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımsız
simetrisinin ilk ve herhangi iki durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.5.1.2.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.5.1.2.1/4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.5.1.2.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımlı
simetrisinin ilk ve herhangi iki durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.5.1.3.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.5.1.3.1/4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.5.1.3.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
simetrisinin ilk ve herhangi iki durumunun
bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.5.2.1.1/6

tek kalan düzgün simetrik olasılık,
2.3.3.2.5.2.1.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.5.2.1.1/10

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımsız simetrisinin ilk ve herhangi iki
durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.5.2.2.1/6

tek kalan düzgün simetrik olasılık,
2.3.3.2.5.2.2.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.5.2.2.1/10

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımlı simetrisinin ilk ve herhangi iki
durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.5.2.3.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.5.2.3.1/3-4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.5.2.3.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

tek kalan simetrik olasılık, 2.3.3.1.8.1.1.1/7

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.8.1.1.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

tek kalan simetrik olasılık, 2.3.3.1.8.1.2.1/7

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.8.1.2.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

tek kalan simetrik olasılık, 2.3.3.1.8.1.3.1/7

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.8.1.3.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

tek kalan simetrik olasılık, 2.3.3.1.8.2.1/11

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.8.2.1/11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

tek kalan simetrik olasılık, 2.3.3.1.8.2.2.1/11

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.8.2.2.1/11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrisinin ilk ve herhangi iki

durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

tek kalan simetrik olasılık, 2.3.3.1.8.2.3.1/7

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.8.2.1.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.6.1.1.1/4

tek kalan düzgün simetrik olasılık, 2.3.3.2.6.1.1.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.6.1.1.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.6.1.2.1/5

tek kalan düzgün simetrik olasılık, 2.3.3.2.6.1.2.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.6.1.2.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.6.1.3.1/5

tek kalan düzgün simetrik olasılık, 2.3.3.2.6.1.3.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.6.1.3.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.6.2.1.1/6

tek kalan düzgün simetrik olasılık, 2.3.3.2.6.2.1.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.6.2.1.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.6.2.2.1/6

tek kalan düzgün simetrik olasılık,
2.3.3.2.6.2.2.1/4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.6.2.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımlı simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.6.2.3.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.6.2.3.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.6.2.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumlu
simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.6.4.1.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.6.4.1.1/4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.6.4.1.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumlu
bağımsız simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.6.4.2.1/5-6

tek kalan düzgün simetrik olasılık,
2.3.3.2.6.4.2.1/4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.6.4.2.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumlu
bağımlı simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.6.4.3.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.6.4.3.1/4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.6.4.3.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.6.6.1.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.6.6.1.1/4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.6.6.1.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
bağımsız simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.6.6.2.1/5-6

tek kalan düzgün simetrik olasılık,
2.3.3.2.6.6.2.1/4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.6.6.2.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
bağımlı simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.6.6.3.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.6.6.3.1/4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.6.6.3.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumlu
simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.6.7.1.1/6

tek kalan düzgün simetrik olasılık,
2.3.3.2.6.7.1.1/4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.6.7.1.1/8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumlu
bağımsız simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.6.7.2.1/6

tek kalan düzgün simetrik olasılık,
2.3.3.2.6.7.2.1/4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.6.7.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumlu
bağımlı simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık,
2.3.3.1.6.7.3.1/5

tek kalan düzgün simetrik olasılık,
2.3.3.2.6.7.3.1/3-4

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.6.7.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu simetrisinin ilk
herhangi bir ve son durumunun
bulunabileceği olaylara göre herhangi bir
ve son duruma bağlı

tek kalan simetrik olasılık,
2.3.3.1.9.1.1.1/7

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.9.1.1.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımsız
simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

tek kalan simetrik olasılık,
2.3.3.1.9.1.2.1/7

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.9.1.2.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımlı
simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

tek kalan simetrik olasılık,
2.3.3.1.9.1.3.1/7

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.9.1.3.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

tek kalan simetrik olasılık,
2.3.3.1.9.2.1.1/11

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.9.2.1.1/11

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
bağımsız simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

tek kalan simetrik olasılık,
2.3.3.1.9.2.2.1/11

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.9.2.2.1/11

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımlı simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

tek kalan simetrik olasılık,
2.3.3.1.9.2.3.1/7

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.9.2.3.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumlu
simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

tek kalan simetrik olasılık,
2.3.3.1.9.4.1.1/7

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.9.4.1.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumlu
bağımlı simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

tek kalan simetrik olasılık,
2.3.3.1.9.4.2.1/7

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.9.4.2.1/11

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumlu
bağımlı simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

tek kalan simetrik olasılık,
2.3.3.1.9.4.3.1/7

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.9.4.3.1/11

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

tek kalan simetrik olasılık,
2.3.3.1.9.6.1.1/7

tek kalan düzgün olmayan simetrik
olasılık, 2.3.3.3.9.6.1.1/11

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
bağımsız simetrisinin ilk herhangi bir ve son

durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

tek kalan simetrik olasılık, 2.3.3.1.9.6.2.1/7

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.9.6.2.1/11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımlı simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

tek kalan simetrik olasılık, 2.3.3.1.9.6.3.1/7

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.9.6.3.1/11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

tek kalan simetrik olasılık, 2.3.3.1.9.7.1.1/11

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.9.7.1.1/11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

tek kalan simetrik olasılık, 2.3.3.1.9.7.2.1/11

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.9.7.2.1/11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımsız simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

tek kalan simetrik olasılık, 2.3.3.1.9.7.3.1/11

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.9.7.3.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.7.1.1.1/5

tek kalan düzgün simetrik olasılık, 2.3.3.2.7.1.1.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.7.1.1.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.7.1.2.1/5

tek kalan düzgün simetrik olasılık, 2.3.3.2.7.1.2.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.7.1.2.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.7.1.3.1/5

tek kalan düzgün simetrik olasılık, 2.3.3.2.7.1.3.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.7.1.3.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.7.2.1.1/7

tek kalan düzgün simetrik olasılık, 2.3.3.2.7.2.1.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.7.2.1.1/10-11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.7.2.2.1/7

tek kalan düzgün simetrik olasılık, 2.3.3.2.7.2.2.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.7.2.2.1/10-11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.7.2.3.1/5

tek kalan düzgün simetrik olasılık, 2.3.3.2.7.2.3.1/3-4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.7.2.3.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.7.4.1.1/5

tek kalan düzgün simetrik olasılık, 2.3.3.2.7.4.1.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.7.4.1.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.7.4.2.1/5

tek kalan düzgün simetrik olasılık, 2.3.3.2.7.4.2.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.7.4.2.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.7.4.3.1/5

tek kalan düzgün simetrik olasılık, 2.3.3.2.7.4.3.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.7.4.3.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.7.6.1.1/5

tek kalan düzgün simetrik olasılık, 2.3.3.2.7.6.1.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.7.6.1.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.7.6.2.1/5

tek kalan düzgün simetrik olasılık, 2.3.3.2.7.6.2.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.7.6.2.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.7.6.3.1/5

tek kalan düzgün simetrik olasılık, 2.3.3.2.7.6.3.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.7.6.3.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.7.7.1/7

tek kalan düzgün simetrik olasılık, 2.3.3.2.7.7.1.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.7.7.1.1/10-11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.7.7.2.1/7

tek kalan düzgün simetrik olasılık, 2.3.3.2.7.7.2.1/4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.7.7.2.1/10-11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

tek kalan simetrik olasılık, 2.3.3.1.7.7.3.1/5

tek kalan düzgün simetrik olasılık, 2.3.3.2.7.7.3.1/3-4

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.7.7.3.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.10.1.1.1/9

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.10.1.1.1/10

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.10.1.2.1/9

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.10.1.2.1/10

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.10.1.3.1/9

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.10.1.3.1/10

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.10.2.1.1/15

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.10.2.1.1/16

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımlı durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.10.2.2.1/15-16

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.10.2.2.1/16

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.10.2.3.1/9-10

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.10.2.3.1/10

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu simetrisinin ilk herhangi iki ve son

durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.10.4.1.1/9

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.10.4.1.1/16

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.10.4.2.1/9

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.10.4.2.1/16

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.10.4.3.1/9

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.10.4.3.1/16

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.10.6.1.1/9

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.10.6.1.1/16

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.10.6.2.1/9

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.10.6.2.1/16

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.10.6.3.1/9

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.10.6.3.1/16

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.10.7.1.1/15-16

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.10.7.1.1/16

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.10.7.2.1/15-16

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.10.7.2.1/16

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.10.7.3.1/9-10

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.10.7.3.1/9-10

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.11.1.1.1/10

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.11.1.1.1/10-11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.11.1.2.1/10

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.11.1.2.1/10-11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin ilk herhangi iki ve son

durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.11.1.3.1/10

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.11.1.3.1/10-11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.11.2.1.1/17-18

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.11.2.1.1/17-18

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.11.2.2.1/17

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.11.2.2.1/17-18

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.11.2.3.1/10

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.11.2.3.1/10-11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.11.4.1.1/10

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.11.4.1.1/17-18

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.11.4.2.1/10

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.11.4.2.1/17-18

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.11.4.3.1/10

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.11.4.3.1/17-18

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.11.6.1.1/10

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.11.6.1.1/17-18

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.11.6.2.1/10

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.11.6.2.1/17-18

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.11.6.3.1/10

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.11.6.3.1/17-18

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.11.7.1.1/17

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.11.7.1.1/17-18

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımsız simetrisinin ilk herhangi iki ve son

durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.11.7.2.1/17

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.11.7.2.1/17-18

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

tek kalan simetrik olasılık, 2.3.3.1.11.7.3.1/10

tek kalan düzgün olmayan simetrik olasılık, 2.3.3.3.11.7.3.1/10-11

VDOİHİ’de Olasılık ve İhtimal konularının tanım ve eşitlikleri verilmektedir. Ayrıca VDOİHİ’de olasılık ve ihtimalin uygulama alanlarına da yer verilmektedir. VDOİHİ konu anlatım ciltleri ve soru, problem ve ispat çözümlerinden oluşmaktadır. Bu cilt bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz olasılık dağılımlardan, bağımsız olasılıklı durumla başlayıp ilk bağımlı durumu bağımlı olasılıklı dağılımın ilk bağımlı durumu hariç dağılımın başlayabileceği diğer bir bağımlı durum olan ve bağımsız olasılıklı durumla başlayan dağılımın aynı ilk bağımlı durumuyla başlayan dağılımlarda, simetrisinin ilk ve son durumunun bulunabileceği olaylara göre tek kalan düzgün olmayan simetrik olasılığın, tanım ve eşitliklerinden oluşmaktadır.

VDOİHİ Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumu simetrisinin ilk ve son durumunun bulunabileceği olaylara göre tek kalan düzgün olmayan simetrik olasılık kitabında, bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlardan, bağımsız olasılıklı durumla başlayıp ilk bağımlı durumu bağımlı olasılıklı dağılımın ilk bağımlı durumu hariç dağılımın başlayabileceği diğer bir bağımlı durum olan ve bağımsız olasılıklı durumla başlayan dağılımın aynı ilk bağımlı durumuyla başlayan dağılımlarda, simetrisinin ilk ve son durumunun bulunabileceği olaylara göre tek kalan düzgün olmayan simetrik olasılığın, tanım ve eşitlikleri verilmektedir.

VDOİHİ’nin diğer ciltlerinde olduğu gibi bu ciltte de verilen ana eşitlikler, olasılık tablolarından elde edilen verilerle üretilmiştir. Diğer eşitlikler ise ana eşitliklerden teorik yöntemle üretilmiştir. Eşitlik ve tanımların üretilmesinde diğer kaynak kullanılmamıştır.