

# VDOİHİ

Bağımlı ve Bir Bağımsız  
Olasılıklı Büyük Farklı  
Dizilimli Bağımlı-Bağımlı ve  
Bağımsız-Bağımlı Durumlu  
Simetrinin İlk Düzgün  
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Cilt 2.2.4.1

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**VDOİHİ Bağımlı ve Bir Bağımsız Olasılıklı Büyük Farklı Dizimli Bağımlı-Bağımlı ve Bağımsız-Bağımlı Durumlu Simetrisinin İlk Düzgün Simetrik Olasılığı-Cilt 2.2.4.1**

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## **KÜTÜPHANE BİLGİLERİ**

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*1. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizimli ilk düzgün simetrik olasılık 2. Bağımlı durumlu simetrisinin ilk düzgün simetrik olasılığı 3. Bağımsız-bağımlı durumlu simetrisinin ilk düzgün simetrik olasılığı*

*Dili: Türkçe + Matematik Mantık*

## 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 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.

## Yazar ve VDOİHİ

Yazar doktora tez çalışmasına kadar, dijital makinalarla sayısallaştırılabilen fakat insan tarafından sayısallaştırılmayan verileri, anlamlı en küçük parça (akp)'larına ayırıp skorlandırarak, sayısallaştırma problemini çözmüştür. Anlamlı en küçük parçaların Türkçe kısaltmasını olasılığın birimlendirilebilir olmasından dolayı, olasılığın birimini akp olarak belirlemiştir. Matematiğinin başlangıcı olasılık olan tüm bağımlı değişkenlerde olabileceği gibi aynı zamanda enformasyonunda temeli olasılık olduğundan, enformasyon içeriğinin de doğal birimi akp'dir.

Verilerin objektif lojik simplisitede sayısallaştırılmasıyla Veri Değişkenleri Olasılık ve İhtimal Hesaplama İstatistiği (VDOİHİ) geliştirilmeye başlanmıştır. Doktora tezinin nitel verilerini, bir ilk olarak, -1, 0, 1 skorlarıyla sayısallaştırarak iki tabanlı olasılığı sınıflandırıp; pozitif, negatif (ve negatiflerdeki pozitif skorlar için ayrıca eşitlik tanımlaması yapıp), ilişkisiz ve sıfır skor aşamalarında değerlendirme yöntemi geliştirmiştir. Bu yöntemin tüm kavramlarının; tanım ve formülleriyle sınırları belirlenip, kendi içinde tam bir matematiği geliştirilip, uygulamalarla veri elde edilmiş, verilerin hem değerlendirmeleri hem de bulguların sözel ifadelerini veren yazılım paket programı yapılarak, bir disiplinin tüm yönleri yazar tarafından gerçekleştirilerek doktorasını bilim tarihinde yine bir ilk ile tamamlamıştır. Nitel verilerden elde edilebilecek bulguların sözel ifadelerini veren yazılım paket programı gerçek ve olması gereken yapay zekanın ilk örneğidir.

Yazar, ölçme araçları için madde tekniği tanımlayıp, değerlendirme yöntemlerini belirginleştirilerek, eğitimde ölçme ve değerlendirme için beş yeni boyut aktiflemiştir. Ölçme ve değerlendirmeye, aktif ve pasif değerlendirme tanımlaması yapılarak, matematiği geliştirilmiş ve geliştirilmeye devam edilmektedir. Yazar yaptığı çalışmalarda Problem Çözüm Tekniklerini (PÇT) aktifleyerek; verilenler-istenilenler (Vİ), serbest cisim diyagramı/çizim (SCD), tanım, formül ve işlem aşamalarıyla, eğitimde ölçme ve değerlendirmede beş boyut daha aktiflemiştir. PÇT aşamalarını bilgi düzeyi, çözümlerin sonucunu da başarı düzeyi olarak tanımlayıp, ölçme ve değerlendirme için iki yeni boyut daha kazandırmıştır. Sınıflandırılmış iki tabanlı olasılık yönteminin aşamaları ve negatiflerdeki pozitiflerle, ölçme ve değerlendirmeye beş yeni boyut daha kazandırılmıştır. Verilerin; Shannon eşitliği veya VDOİHİ'de verilen olasılık-ihtimal eşitlikleriyle değerlendirmeyi bilgi

merkezli, matematiksel fonksiyonlarla (lineer, kuvvet, trigonometri “sin, cos, tan, cot, sinh, cosh, tanh, coth”, ln, log, eksponansiyel v.d.) değerlendirmeyi ise birey merkezli değerlendirme, sınırlandırması getirerek, değerlendirmeye iki yeni boyut daha kazandırmıştır. Ayrıca  $\frac{a}{b} + \frac{c}{d}$  ve  $\frac{a+c}{b+d}$  matematiksel işlemlerinin anlam ve sonuç farklılıklarını, değerlendirme için aktifleyerek, değerlendirmeye iki yeni boyut daha kazandırmıştır. Böylece eğitimde ölçme ve değerlendirmeye; PÇT aşamaları  $5 \times 5$ , yine PÇT'nin bilgi ve başarı düzeylerinin  $2 \times 2$ , sınıflandırılmış iki tabanlı olasılık yöntemi  $5 \times 5$ , bilgi ve birey merkezli ölçme ve değerlendirmeyle  $2 \times 2$ , matematiksel işlem farklılıklarıyla  $2 \times 2$  olmak üzere 40.000 yeni boyut kazandırmıştır. Bu boyutlara yukarıda verilen matematiksel fonksiyonlarında dahil edilmesiyle en az  $(13 \times 13)$  6.760.000 yeni boyutun primitif düzeyde, ölçme ve değerlendirmeye, katılabilmesinin yolu yazar tarafından açılmış olmasına karşılık, günümüze kadar yukarıda bahsedilen boyutların ilgi düzeyinde, eğitimde ölçme ve değerlendirmede, tek boyuttan öteye (lineer değerlendirme) geçirilememiştir. Bu noktadan sonra, ölçme ve değerlendirmeye fark istatistiğiyle boyut kazandırılabilmiştir. Fark istatistiğiyle kazandırılan boyutlarında hem ihtimallerden çıkarılacak yeni boyutlar hem de ihtimallerin fark istatistiğinden türetilebilecek boyutların yanında güdük kalacağı kesin! Ölçme ve değerlendirmeye yeni boyutlar kazandırılmasının en önemli amaçları; beynin öğrenme yapısının kesin bir şekilde belirlenebilmesi ve öğretim süreçlerinin bilimsel bir şekilde yapılandırılabilmesidir. Beyinle ilgili VDOİHİ Bağımlı Olasılık Cilt 1'in giriş bölümünde verilenlerin genişletilmesine ileride devam edilecektir. Fakat öğretim süreçlerinin; teorik öngörülerle ve/veya insanın yaradılışına uyma olasılığı son derece düşük doğrusal değerlendirmelerle yapılandırılması, yazar tarafından insanlığa ihanet olarak görüldüğünden, doğru verilerle eğitimin bilimsel niteliklerde yapılandırılabilmesi için, ölçme ve değerlendirmeye yeni boyutlar kazandırılmaktadır.

Günümüze kadar yaşayan dillere 10 kavram bile kazandırabilen hemen hemen yokken, yayınlanan VDOİHİ ciltlerinde (cilt 1, 2.1.1, 2.2.1, 2.3.1 ve 2.3.2) yaklaşık 1000 kavram Türkçeye kazandırılarak ciltlerin dizinlerinde verilmiştir. Bu kavramların tüm sınırları belirlenip, açık ve anlaşılır tanımlarıyla birlikte, eşitlikleri de verilmiştir. Bu düzeyde yani bilimsel düzeyde, bilime kavramlar Türkçe olarak kazandırılmıştır. Yayınlanacak VDOİHİ'lerde bilime Türkçe kazandırılacak kavramların on binler düzeyinde olacağı öngörülmektedir.

VDOİHİ'de verilen eşitlikler aynı zamanda dillerinde eşitlikleridir. Diğer bir ifadeyle dillerin matematik yapıları VDOİHİ ile ortaya çıkarılmıştır. Türkçe ve İngilizcenin olasılık yapıları VDOİHİ'de belirlenerek, formüllerin dillere (ağırlıklı Türkçe) uygulamalarıyla hem dillerin objektif yapıları belirginleştiriliyor hem de makina-insan arası iletişimde, makinaların iletişim kurabilmesinde en üst dil olarak Türkçe geliştiriliyor. İleriki ciltlerde Türkçenin matematik mantık yapısı da verilerek, Türkçe'nin makinaların iletişim dili yapılması öngörülmektedir.

Bilim(de) kesin olanla ilgileni(li)r, yani bilim eşitlik ve/veya yasa üretir veya eşitliklerle konuşur. Bunun mümkün olmadığı durumlarda geçici çözümler üretilebilir. Bu geçici çözümler veya yöntemleri, her hangi bir nedenle bilimsel olamaz. Bilimin yasa veya eşitlik üretimindeki kırılma, Cebirle başlamıştır. Bilimdeki bu kırılma mühendisliğin, teknolojiye

dönüşümünün başlangıcıdır. Bilimdeki kırılma ve mühendisliğin teknolojiye dönüşümü, insanlığın gelişimini hızlandırmakla birlikte, bu alanda çalışanların; ego, öngörüsüzlük, ufuksuzluk ve beceriksizlikleri gibi nedenlerden dolayı, insanlığın gelişimi ivmelendirilemediği gibi bu basiretsizliklerle insanlığa pranga vurmaya bile kısmen başarabilmişlerdir. VDOİHİ ve telifli eserlerinde verilen; değişken belirleme, eşitlik-yasa belirleme ve bunların sözel yorumlarını yapabilen yazılımlarla, ve yapılabilecek benzeri yazılımlarla, insanlığın gelişimi ivmelendirilebileceği gibi isteyen her bireye, gerçeklerin (VDOİHİ Bağımlı Olasılık Cilt 1'in giriş bölümünde tanımlanmıştır) bilgi ve teknolojisine daha kolay ulaşabilme imkanı sağlanmıştır.

Şuana kadar zaruri tüm tanımların, zaruri tüm eşitliklerin ve bunların epistemolojileriyle (0. epistemolojik seviye) en azından 1. epistemolojik seviye bilgilerinin birlikte verildiği ya ilk yada ilk örneklerinden biri VDOİHİ'dir. Bu kapsamda VDOİHİ'de şimdiye kadar yaklaşık 1000 kavramın, bilime kazandırıldığı yukarıda belirtilmiştir. Bu kapsamda yine VDOİHİ'de 5000'in üzerinde orijinal; ilk ve yeni eşitlik geliştirilmiştir. Bu eşitlikler kasıtlı olarak ilk defa dört farklı yapıda birlikte verilmektedir. Bu eşitlikler; a) sabit değişkenli (örneğin; bağımlı olasılıklı farklı dizilimli simetrik olasılık eşitlikleri) b) sabit değişkenli işlem uzunluklu (örneğin; simetrisinin son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık eşitliği) c) hem değişken uzunluklu hem işlem uzunluklu (örneğin; simetrisinin her durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık eşitliği) d) sabit değişkenli zıt işlem uzunluklu (bu eşitlik VDOİHİ cilt 2.1.3'ten itibaren verilecektir. Örneğin;  $\sum_{i=5}^n \mp$ ) yapılar da verilmektedir. Sabit değişkenli eşitliklerle, bilim ve teknolojiye gereksinimlerin çoğunluğu karşılanabilirken, geleceğin bilim ve teknolojisinde ihtiyaç duyulabilecek eşitlik yapıları kasıtlı olarak aktiflenmiş veya geliştirilmiştir.

İnsanın hem öğrenmesinin desteklenmesi hem de bilginin teknolojiyle ilişkisini kurabilmesi için özellikle VDOİHİ Soru Problem İspat Çözümleri ciltlerinde, soru ve problem birbirinden ayrılarak yeniden tanımlanıp sınırları belirlenmiştir. Böylece örnek, soru, problem ve ispat arasındaki farklılıklar belirginleştirilmiştir. Ayrıca yine insanın hem öğrenmesinin desteklenmesi hem de bilginin teknolojiyle ilişkisini daha kesin kurabilmesi için Sertaç ÖZENLİ'nin İlmî Sohbetler eserinin M5-M6 sayfalarında verilen epistemolojik seviye tanımları; örnek, soru, problem ve ispatlara uyarlanmıştır. Böylece; örnek, soru, problem ve ispatların epistemolojileriyle, hem bilgiyle-öğrenme arasında hem de bilgi-teknoloji arasında yeni bir köprü kurulmuştur.

Geride bıraktığımız yüzyılda, özellikle Turing ve Shannon'un katkılarıyla iki tabanlı olasılığa dayalı dijital teknoloji kurulabilmiştir. Kombinasyon eşitliğiyle iki tabanlı simetrik olasılıklar hesaplanabildiğinden, ihtimalleri de kesin olarak hesaplanabilir. İki tabanlı büyük tabanların; bağımsız olasılık, bağımlı olasılık, bağımlı-bağımsız olasılık, bağımlı-bağımlı olasılık veya bağımsız-bağımsız olasılık dağılımlarındaki simetrik olasılıkları VDOİHİ'ye kadar kesin olarak hesaplanamadığından (hatta VDOİHİ'ye kadar olasılığın sınıflandırılması bile yapılmamış/yapılamamıştır), farklı tabanlarda çalışabilecek elektronik teknolojisi kurulamamıştır. VDOİHİ'de verilen eşitliklerle, hem farklı olasılık dağılımlarında hem de her tabanda simetrik olasılıkların olabilecek her türü, hesaplanabilir kılındığından, ihtimalleri de

kesin olarak hesaplanabilir. Böylece VDOİHİ’de verilen eşitliklerle hem istenilen tabanda hem de istenilen dağılım türlerinde çalışabilecek elektronik teknolojinin temel matematiği kurulmuştur. Bundan sonraki aşama bilginin-ürüne dönüşme aşamasıdır. Ayrıca VDOİHİ’de özellikle uyum eşitlikleri kullanılarak farklı dağılım türlerine geçişin yapılabileceği eşitliklerde verilerek, dijital teknoloji yerine kurulacak her tabanda ve/veya her dağılım türünde çalışan teknolojinin istenildiğinde de hem farklı taban hem de farklı dağılım türlerine geçişinin yapılabileceği matematik eşitlikleri de verilmiştir. Böylece tek bir tabana dayalı dijital teknoloji yerine, sonsuz çalışma prensibine dayalı elektronik teknolojinin bilimsel-matematiksel yapısı VDOİHİ ile kurulmuş ve kurulmaya devam etmektedir.

VDOİHİ’de verilen eşitlikler aynı zamanda en küçük biyolojik birimden itibaren anlamlı temel biyolojik birimin “genetiğin” temel matematiğidir. En küçük biyolojik birim olarak DNA alındığında, VDOİHİ’de verilen eşitlikler DNA, RNA, Protein, Gen ve teknolojilerinin temel eşitlikleridir. Bu eşitlikler VDOİHİ’de teorik düzeyde; DNA, RNA, Protein, Gen ve hastalıklarla ilişkilendirilmektedir. Bu eşitlikler gelecekte atom düzeyinden başlanarak en kompleks biyolojik birimlere kadar tüm biyolojik birimlerin laboratuvar ortamlarında üretiminin planlı ve kontrollü yapılabilmesinde ihtiyaç duyulacak temel eşitliklerdir. Böylece bir canlının, örneğin insanın, atom düzeyinden başlanarak laboratuvar ortamında üretilebilir/yapılabilir kılınmasının, matematiksel yapısı ilk defa VDOİHİ’de verilmektedir. Elbette bir insanın laboratuvar ortamında üretilebilir olmasıyla, bunun gerçekleştirilmesi aynı değildir. Gerçekleştirilebilmesi için dini, etik, ahlaki v.d. aşamalarda da doğru kararların verilmesi gerekir. Fakat organların v.b. biyolojik birimlerin laboratuvar ortamında üretilmesinin önünde benzeri aşamaların engel oluşturduğu söylenemez. İhtiyaç halinde bir insanın; organının, sisteminin veya uzvunun v.b. her yönüyle aynısının laboratuvar ortamında üretilmesi veya soyu tükenmiş bir canlının yeniden üretimi veya soyunun son örneği bir canlı türünün devamı VDOİHİ’de verilen eşitlikler kullanılarak sağlanabilir. Biyolojik bir yapının laboratuvar ortamında üretimiyle, örneğin herhangi bir makinanın üretilmesinin İslam açısından aynı değerli olduğunu düşünüyorum. Bu yaradan’ın bize ulaşabilmemiz için verdiği bilgidir. Eğer ulaşılması istenmeseydi, bizim öyle bir imkanımızda olamazdı. Fakat bilginin, bizim ulaşabileceğimiz bilgi olması, yani gerçeğin bilgisi olması, her zaman ve her durumda uygulanabilir olacağı anlamına gelmez. Umarım yapmak ile yaratmak birbirine karıştırılmaz!

VDOİHİ’de hem sonsuz çalışma prensibine dayalı elektronik teknolojinin matematiksel yapısı hem de Telifli eserlerinde ve VDOİHİ’de, ilk defa yapay zeka çağının kapılarını aralayan çalışmalar yapılmıştır. VDOİHİ cilt 2.1.1’in giriş bölümünde yapay zeka ve çağının tanımı yapılarak, kütüphane ve referans bilgileriyle ilişkilendirilmiştir. Daha sonra VDOİHİ ve Telifli eserlerinde insanlığın gelişimini ivmelendirecek; yapay zeka görev kodları, verilerin analizleriyle ait olduğu disiplinin belirlenmesi, verinin analizinden verilen ve istenilenlerin belirlenmesi, değişken analizi, eksik değişkenlerin belirlenmesi, eksik değişkenlerin verilerinin üretimi, değişkenler arası eşitliklerin kurulması ve elde edilen bilgilerin sözel ifadeleriyle bilim ve teknoloji için gerekli bilgiyi üretebilen yazılımlar verilmiştir. Hem bu yazılımlarla hem de benzeri yazılımlarla, bilim insanları tarafından üretilmeyen bilgi ve teknolojilerin isteyen her kişi tarafından üretilebilir olması sağlanmıştır. Ayrıca kütüphane ve referans bilgilerinin üretiminde, olasılık dağılımları üzerinden çalışan makinaların bir olayın

tüm yönlerini (olasılıklarını) kullanmaları sağlanarak, tıpkı insan gibi düşünebilmesi sağlanmıştır. Böylece makinaların özgürce düşünebilmesinin önündeki engeller kaldırılmıştır. Gerçek yapay zeka pahalı deneylere ihtiyacı ortadan kaldırarak, insanlara yaradan'ın tanıdığı eşitliklerin (matematiksel eşitlik değil!), belirli insanlar tarafından saptırılarak, diğerlerinin eşitlik ve özgürlüklerinin gasp edilmesinin önünde güçlü bir engel teşkil edecektir. Bugüne kadar artificial intelligence çalışmalarıyla sadece ve sadece kütüphane bilgisinin bir kısmı üretilebildiği ve kütüphane bilgisi üretebilen teknoloji geliştirildiğinden, bunlar yapay zekanın öncü çalışmalarından öte geçip yapay zeka konumunda düşünülemez. Gerçek yapay zeka hem kütüphane hem de referans bilgisi üretebilir olması gerektiğinden; a) yazar tarafından doktora tez çalışması başta olmak üzere belirli çalışmalarında kütüphane bilgisinin ileri örnekleri başarıldığından, b) ilk defa VDOİHİ ve Telifli eserlerinde referans bilgisini üreten yazılımlar başarıldığından ve c) yapay zekanın gereksinim duyabileceği dijital teknoloji yerine, sonsuz çalışma prensibine dayalı elektronik teknolojisinin bilimsel-matematiksel yapısı yazar tarafından geliştirildiğinden, insanlığın bugüne kadar uyguladığı teamüller gereği adlandırmanın da Türkçe yapılması elzem ve adil bir zorunluluktur. Bu nedenle insan biyolojisinin ürünü olmayan zeka “yapay zeka” ve insan biyolojisinin ürünü olmayan zekayla insanlığın gelişiminin ivmelendirildiği zaman periyodu da “yapay zeka çağı” olarak adlandırılmalıdır.

Yazar tarafından VDOİHİ’de, Cebirden günümüze; a) bilimsel gelişim, olması gereken veya olabilecek gelişime göre düşük olduğundan, b) teorik çalışmaların omurgasının matematiğe terk edilmesi ve matematikçilerinde üzerlerine düşeni yeterince yerine getirememelerinden dolayı, c) yapay zeka karşısında buhrana düşülmesinin önüne geçilebilmesi ve d) kainatın en kompleks birimi olan insan beynine yakışır bilimsel gelişimin başarılabilmesi için, yasa/eşitliklerin, uyum ve genel yapıları, olasılık üzerinden belirlenmiştir.

Yazar tarafından VDOİHİ Bağımlı ve Bir Bağımsız Olasılıklı Büyük Farklı Dizilimli Simetrik Olasılık Cilt 2.2.1’de insanlığın bilimsel ve teknolojik gelişimini ivmelendirebilecek uyum çağının tanımı yapılarak, VDOİHİ’de ilk defa yasa/eşitliklerin, olasılık eşitlikleri üzerinden uyum yapıları verilmiştir.

Yazar tarafından VDOİHİ Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dizilimsiz Simetrik Olasılık Cilt 2.3.1’de insanlığın bilimsel ve teknolojik gelişimini ivmelendirebilecek genel çağın tanımı yapılarak, VDOİHİ’de yasa/eşitliklerin, olasılık eşitlikleri üzerinden genel yapıları verilmiştir.

Yazar tarafından VDOİHİ Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dizilimsiz Simetrik Bulunmama Olasılığı Cilt 2.3.2 insanlığın bilimsel ve teknolojik gelişimini ivmelendirebilecek dördüncü bir çağ olarak, gerçek zaman ufku ötesi çağı tanımlanmıştır. Bu çağın tanımlanmasında; Sertaç ÖZENLİ’nin İlmi Sohbetler eserinin R39-R40 sayfalarından yararlanılarak, kapak sayfasındaki ve T21-T22’inci sayfalarında verilen şuuruluğun ork or modelinin özetinin gösterildiği grafikten yararlanılmıştır. Doğada rastlanmayan fakat kuantum sayılarıyla ulaşılabilen atomlara ait bilgilerimiz, gerçek zaman ufku ötesi bilgilerimizin, gerçekleştirilmiş olanlarıdır. Gerçekleştirilebilecek olanlarından biri ise kainatın herhangi bir

yerinde yaşamını sürdüren herhangi bir canlıdan henüz haberdar bile olmadan, var olan genetik bilgi ve matematiğimizle ulaşılabilir olan tüm bilgilerine ulaşılmasıdır.

Özellikle; sonsuz çalışma prensibine dayalı elektronik teknolojisi, yapay zeka, gerçek zaman ufku ötesi bilgilerimizin temel eşitliklerinin verilebilmesi, başlangıçta kurucusu tarafından yapılabileceklerin ilerleyen zamanlarda o disiplinin cazibe merkezine dönüşerek insan kaynaklarının israfının önlenmesi nedenleriyle ve en önemlisi Yaradan'ın bizlere verdiği adaletin insan tarafından saptırılmaması için; VDOİHİ, bugüne kadarki eserlerle kıyaslanamayacak ölçüde daha kapsamlı verilmeye çalışılmaktadır.

Yazar VDOİHİ'nin ciltlerini, Türkçe ve insanlığın tek evrensel dili olan matematik-mantık dillerinde yazmaktadır. Yazar eserlerinden insanlığın aynı niteliklerle yararlanabilmesi için her kişiye eşit mesafede ve anlaşılabilirlikte olan günümüze kadar insanlığın geliştirebildiği yegane evrensel dilde VDOİHİ ciltlerini yazmaya devam edecektir.

*VDOİHİ ve telifli eserleri ile bitirilen veya sonu başlatılanlar;*

- ✓ VDOİHİ'de dillerin matematiği kurularak, o dil için kendini mihenk taşı gören zavallılar sınıfı
- ✓ Baskın dillerin, dünya dili olabilmesi
- ✓ VDOİHİ ve Telifli eserlerinde verilen eşitlik ve yasa belirleme yazılımlarıyla, gerçeklerden uzak ve ufuksuz sözde akademisyenlere insanlığın tahammülü
- ✓ Bilim ve teknolojide sermayeye olan bağımlılık
- ✓ Sermaye birikiminin gücü
- ✓ Primitif ölçme ve değerlendirme

*Sanırım bilgi ve teknolojiye kaderimiz veriyle ilişkilendirilmiş.*



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## Simge ve Kısaltmalar

$n$ : olay sayısı

$n$ : bağımlı olay sayısı

$m$ : bağımsız olay sayısı

$n_i$ : dağılımın ilk bağımlı durumun bulunabileceği olayın, dağılımın ilk olayından itibaren sırası

$n_{ik}$ : simetride, simetrinin aranacağı durumdan önce bulunan bağımlı durumun ( $j_{ik}$ 'da bulunan durum), bir bağımlı ve bir bağımsız olasılıklı dağılımlarda bulunabileceği olayların, ilk olaydan itibaren sırası veya simetrinin iki bağımlı durum arasında bağımsız durumun bulunduğu bağımsız durumdan önceki bağımlı durumun, bir bağımlı ve bir bağımsız olasılıklı dağılımlarda bulunabileceği olayların ilk olaydan itibaren sırası

$n_s$ : simetrinin aranacağı bağımlı durumunun (simetrinin sonuncu bağımlı durumu) bulunabileceği olayların ilk olaya göre sırası

$n_{sa}$ : simetrinin aranacağı bağımlı durumunun bulunabileceği olayların ilk olaya göre sırası veya bağımlı olasılıklı dağılımların  $j_{sa}^a$ 'da bulunan durumun (simetrinin  $j_{sa}$ 'daki bağımlı durum) bir bağımlı ve bir bağımsız olasılıklı dağılımlarda bulunabileceği olayların, dağılımın ilk olayından itibaren sırası

$l$ : bağımsız durum sayısı

$I$ : simetrinin bağımsız durum sayısı

$ll$ : simetrinin bağımlı durumlarından önce bulunan bağımsız durum sayısı

$I$ : simetrinin bağımlı durumlarından sonra bulunan bağımsız durum sayısı

$lk$ : simetrinin bağımlı durumları arasındaki bağımsız durumların sayısı

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

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

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

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

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

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

$j_{sa}$ : simetriyi oluşturan bağımlı durumlar arasında simetrimin aranacağı durumun bulunduğu olayın, simetrimin 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

$s$ : simetrimin bağımlı durum sayısı

$s$ : simetrik durum sayısı. Simetrimin bağımlı ve bağımsız durum sayısı

$n_s$ : simetrimin bağımlı olay sayısı

$m_I$ : simetrimin bağımsız olay sayısı

$d$ : seçim içeriği durum sayısı

$m$ : olasılık

$M$ : olasılık dağılım sayısı

$U$ : uyum eşitliği

$u$ : uyum derecesi

$s_i$ : olasılık dağılımı

$S$ : simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu simetrik olasılık

$S^{IS}$  : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu ilk simetrik olasılık

$S^{ISS}$  : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu ilk düzgün simetrik olasılık

$S_{j_s, j_{ik}, j^{sa}}$ : simetrimin ilk ve herhangi iki durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i, j_s, j_{ik}, j^{sa}}$ : düzgün ve düzgün olmayan simetrimin ilk ve herhangi iki durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{j_s, j_{ik}, j_i}$ : simetrimin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i, j_s, j_{ik}, j_i}$ : düzgün ve düzgün olmayan simetrimin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{D=n}$ : bağımlı olay sayısı bağımlı durum sayısına eşit bağımlı olasılıklı “farklı dizilimli” dağılımlarda simetrik olasılık

$S_{D>n}$ : bağımlı olay sayısı bağımlı durum sayısından büyük bağımlı olasılıklı “farklı dizilimli” dağılımlarda simetrik olasılık

$S_{D=n<n} \equiv S$ : simetri bağımlı durumlardan oluştuğunda, bağımlı ve bir bağımsız olasılıklı dağılımlarda simetrik olasılık

$S_0$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımsız simetrik olasılık





olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bağımsız durumlu bağımlı ilk simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bağımsız durumlu bağımlı ilk simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımsız durumlu bağımlı ilk simetrik olasılık

${}^0S_D^{iss}$  : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımlı ilk düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bir bağımsız durumlu bağımlı ilk düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bağımsız durumlu bağımlı ilk düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımsız durumlu bağımlı ilk düzgün simetrik olasılık

$S_{j_i}$ : simetrimin son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{2,j_i}$ : iki durumlu simetrimin son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i,j_i}$ : düzgün ve düzgün olmayan simetrimin son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i,2,j_i}$ : düzgün ve düzgün olmayan iki durumlu simetrimin son durumunun

bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{j_s,j_i}$ : simetrimin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i,j_s,j_i}$ : düzgün ve düzgün olmayan simetrimin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i,2,j_s,j_i}$ : düzgün ve düzgün olmayan iki durumlu simetrimin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{j_s,j_i}^{sa}$ : simetrimin ilk ve herhangi bir durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i,j_s,j_i}^{sa}$ : düzgün ve düzgün olmayan simetrimin ilk ve herhangi bir durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{j_{ik},j_i}$ : simetrimin her durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{i,j_{ik},j_i}$ : düzgün ve düzgün olmayan simetrimin her durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık

$S_{j^{sa\leftarrow}}$ : simetrimin durumuna bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j^{sa\leftarrow}}^{DSD}$ : simetrimin durumuna bağlı bağımlı olasılıklı farklı dizilimli düzgün simetrik olasılık

$S_{artj^{sa}\Leftarrow}$ : simetrisinin art arda durumlarına bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_s,artj^{sa}\Leftarrow}$ : simetrisinin ilk durumuna göre herhangi art arda iki durumuna bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_s,j_i\Leftarrow}$ : simetrisinin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_s,j_i}^{DSD}$ : simetrisinin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün simetrik olasılık

$S_{j_s,j^{sa}\Leftarrow}$ : simetrisinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_s,j^{sa}}^{DSD}$ : simetrisinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün simetrik olasılık

$S_{j_{ik},j^{sa}\Leftarrow}$ : simetrisinin herhangi iki durumuna bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_{ik},j^{sa}}^{DSD}$ : simetrisinin herhangi iki durumuna bağlı bağımlı olasılıklı farklı dizilimli düzgün simetrik olasılık

$S_{j_s,j_{ik},j^{sa}\Leftarrow}$ : simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_s,j_{ik},j^{sa}}^{DSD}$ : simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre

bağımlı olasılıklı farklı dizilimli düzgün simetrik olasılık

$S_{\Leftarrow j_s,j_{ik},j^{sa}\Leftarrow}$ : simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_s,j_{ik},j_i\Leftarrow}$ : simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j_s,j_{ik},j_i}^{DSD}$ : simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün simetrik olasılık

$S_{\Leftarrow j_s,j_{ik},j_i\Leftarrow}$ : simetrisinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik olasılık

$S_{j^{sa}\Rightarrow}$ : simetrisinin durumuna bağlı bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{artj^{sa}\Rightarrow}$ : simetrisinin art arda durumlarına bağlı bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_s,artj^{sa}\Rightarrow}$ : simetrisinin ilk durumuna göre herhangi art arda iki durumuna bağlı bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_s,j_i\Rightarrow}$ : simetrisinin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_s,j^{sa}\Rightarrow}$ : simetrisinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre

bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_{ik},j^{sa}\Rightarrow}$ : simetrimin herhangi iki durumuna bağlı bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_s,j_{ik},j^{sa}\Rightarrow}$ : simetrimin ilk ve herhangi iki durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_s,j_{ik},j^{sa}}^{DOSD}$ : simetrimin ilk ve herhangi iki durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün olmayan simetrik olasılık

$S_{\Rightarrow j_s,j_{ik},j^{sa}\Rightarrow}$ : simetrimin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_s,j_{ik},j_i\Rightarrow}$ : simetrimin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j_s,j_{ik},j_i}^{DOSD}$ : simetrimin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün olmayan simetrik olasılık

$S_{\Rightarrow j_s,j_{ik},j_i\Rightarrow}$ : simetrimin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı bağımlı olasılıklı farklı dizilimli simetrik ayırım olasılığı

$S_{j^{sa}\Leftrightarrow}$ : simetrimin durumuna bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik-ayrı olasılığı

$S_{j^{sa}}^{DOSD}$ : simetrimin durumuna bağlı bağımlı olasılıklı farklı dizilimli düzgün olmayan simetrik olasılık

$S_{art,j^{sa}\Leftrightarrow}$ : simetrimin art arda durumlarına bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik-ayrı olasılığı

$S_{j_s,art,j^{sa}\Leftrightarrow}$ : simetrimin ilk durumuna göre herhangi art arda iki durumuna bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik-ayrı olasılığı

$S_{j_s,j_i\Leftrightarrow}$ : simetrimin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik bitişik-ayrı olasılığı

$S_{j_s,j_i}^{DOSD}$ : simetrimin ilk ve son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün olmayan simetrik olasılık

$S_{j_s,j^{sa}\Leftrightarrow}$ : simetrimin ilk ve herhangi bir durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik bitişik-ayrı olasılığı

$S_{j_s,j^{sa}}^{DOSD}$ : simetrimin ilk ve herhangi bir durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün olmayan simetrik olasılık

$S_{j_{ik},j^{sa}\Leftrightarrow}$ : simetrimin herhangi iki durumuna bağlı bağımlı olasılıklı farklı dizilimli simetrik bitişik-ayrı olasılığı

$S_{j_{ik},j^{sa}}^{DOSD}$ : simetrimin herhangi iki durumuna bağlı bağımlı olasılıklı farklı dizilimli düzgün olmayan simetrik olasılık

$S_{BBj_i}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımlı durumun simetrimin son durumuna bağlı simetrik olasılık

$S_{BBj^{sa}\Leftrightarrow}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-



bağımlı durumun simetrisinin bir bağımlı durumuna bağlı simetrik bitişik olasılık

$S_{BBj_{ik},j^{sa\leftarrow}}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin iki bağımlı durumuna bağlı simetrik bitişik olasılık

$S_{BBj_s,j^{sa\leftarrow}}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin ilk ve herhangi bir bağımlı durumuna bağlı simetrik bitişik olasılık

$S_{BBj_s,j_i\leftarrow}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin ilk ve son bağımlı durumuna bağlı simetrik bitişik olasılık

$S_{BBj_s,j_{ik},j^{sa\leftarrow}}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin ilk ve herhangi iki bağımlı durumuna bağlı simetrik bitişik olasılık

$S_{BBj_s,j_{ik},j_i\leftarrow}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin ilk herhangi bir ve son bağımlı durumuna bağlı simetrik bitişik olasılık

$S_{BBj^{sa\Rightarrow}}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin bir bağımlı durumuna bağlı simetrik ayırım olasılığı

$S_{BBj_{ik},j^{sa\Rightarrow}}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin art arda iki bağımlı durumuna bağlı simetrik ayırım olasılığı

$S_{BBj_s,j^{sa\Rightarrow}}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-

bağımlı durumun simetrisinin ilk ve herhangi bir bağımlı durumuna bağlı simetrik ayırım olasılığı

$S_{BBj_s,j_i\Rightarrow}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin ilk ve son bağımlı durumuna bağlı simetrik ayırım olasılığı

$S_{BBj_{ik},j_i,2}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın simetrisinin iki bağımlı durumunun simetrik olasılığı

$S_{BBj_s,j_{ik},j^{sa\Rightarrow}}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin ilk ve herhangi iki bağımlı durumuna bağlı simetrik ayırım olasılığı

$S_{BBj_s,j_{ik},j_i\Rightarrow}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrisinin ilk herhangi bir ve son bağımlı durumuna bağlı simetrik ayırım olasılığı

$S_{BB(j_{ik})_z,(j_i)_z}$ : bir bağımlı ve bir bağımsız olasılıklı dağılımın simetrisinin durumlarının bulunabileceği olaylara göre simetrik olasılık

$S^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu simetrik bulunmama olasılığı

$S^{IS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu ilk simetrik bulunmama olasılığı

$S^{ISS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu ilk düzgün simetrik bulunmama olasılığı

$S_0^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımsız simetrik bulunmama olasılığı

$S_0^{IS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımsız ilk simetrik bulunmama olasılığı

$S_0^{ISS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı

$S_D^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumun bağımlı simetrik bulunmama olasılığı

$S_D^{IS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımlı ilk simetrik bulunmama olasılığı

$S_D^{ISS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı

${}_0S^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu simetrik bulunmama olasılığı

${}_0S^{IS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu ilk simetrik bulunmama olasılığı

${}_0S^{ISS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik bulunmama olasılığı

${}_0S_0^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımsız simetrik bulunmama olasılığı

${}_0S_0^{IS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk simetrik bulunmama olasılığı

${}_0S_0^{ISS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı

${}_0S_D^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımlı simetrik bulunmama olasılığı

${}_0S_D^{IS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk simetrik bulunmama olasılığı

${}_0S_D^{ISS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı

${}_0S^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bir bağımsız durumlu simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bir bağımsız durumlu simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bağımsız durumlu simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bağımsız durumlu simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bağımsız durumlu simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımsız durumlu simetrik bulunmama olasılığı

${}_0S^{IS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bir



${}^0S_D^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımlı simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bir bağımsız durumlu bağımlı simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bağımsız durumlu bağımlı simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bağımsız durumlu bağımlı durumlu simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımsız durumlu bağımlı simetrik bulunmama olasılığı

${}^0S_D^{iS,B}$  : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımlı ilk simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bir bağımsız durumlu bağımlı ilk simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bağımsız durumlu bağımlı ilk simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımsız durumlu bağımlı ilk simetrik bulunmama olasılığı

${}^0S_D^{iSS,B}$  : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bir bağımsız durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız

olasılıklı büyük farklı dizilimli bir bağımlı-bağımsız durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bağımsız durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımsız durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı

${}^1S_1$ : bir olay için bir durumun tek simetrik olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı durumun bağımlı tek simetrik olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir olay için bir bağımlı durumun tek simetrik olasılığı

${}^1S_1^{1,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir olay için bir bağımlı durumun tek simetrik bulunmama olasılığı

${}^1_1S_1$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir dizilimin bağımlı tek simetrik olasılık

${}^1_D S_1$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir olay için bağımlı tek simetrik olasılık

${}^1_0 S_1$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir olay için bağımsız tek simetrik olasılık

${}^1_0 S_1^{1,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir olay için bağımsız tek simetrik bulunmama olasılığı

${}^1_{0,1} S_1$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir dizilimin bağımsız tek simetrik olasılığı

${}_{0,1t}^1S_1^1$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı durumun bağımsız tek simetrik olasılığı

${}_{0,T}^1S_1^1$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımın başladığı duruma göre tek simetrik olasılık

$S_T$ : toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu toplam simetrik olasılık

$^1S$ : tek simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu tek simetrik olasılık

$^1S^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu tek simetrik bulunmama olasılığı

${}_0S^{BS}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli birlikte simetrik olasılık

${}_0S^{iS,BS}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli birlikte ilk simetrik olasılık

${}_0S^{iSS,BS}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli birlikte ilk düzgün simetrik olasılık

${}_0S_0^{BS}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız birlikte simetrik olasılık

${}_0S_0^{iS,BS}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız birlikte ilk simetrik olasılık

${}_0S_0^{iSS,BS}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız birlikte ilk düzgün simetrik olasılık

${}_0S_D^{BS}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı birlikte simetrik olasılık

${}_0S_D^{iS,BS}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı birlikte ilk simetrik olasılık

${}_0S_D^{iSS,BS}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı birlikte ilk düzgün simetrik olasılık

$S_{0,T}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımsız toplam simetrik olasılık

$S_{D,T}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımlı toplam simetrik olasılık

${}_0S_T$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu toplam simetrik olasılık

${}_0S_{0,T}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımsız toplam simetrik olasılık

${}_0S_{D,T}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımlı toplam simetrik olasılık

${}^0S_T$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bir bağımsız durumlu toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bir bağımsız durumlu toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bağımsız durumlu toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bağımsız durumlu toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı

dizilimli bağımsız-bağımsız durumlu toplam simetrik olasılık

${}^0S_{0,T}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımsız toplam simetrik olasılık eşitliği veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bir bağımsız durumlu bağımsız toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bağımsız durumlu bağımsız toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bağımsız durumlu bağımsız toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımsız durumlu bağımsız toplam simetrik olasılık

${}^0S_{D,T}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımlı toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bir bağımsız durumlu bağımlı toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bağımsız durumlu bağımlı toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bağımsız durumlu bağımlı toplam simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımsız durumlu bağımlı toplam simetrik olasılık

${}^0S^{BS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli birlikte simetrik bulunmama olasılığı

${}^0S^{IS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli birlikte ilk simetrik bulunmama olasılığı

${}^0S^{ISS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli birlikte ilk düzgün simetrik bulunmama olasılığı

${}^0S_0^{BS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız birlikte simetrik bulunmama olasılığı

${}^0S_0^{IS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız birlikte ilk simetrik bulunmama olasılığı

${}^0S_0^{ISS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız birlikte ilk düzgün simetrik bulunmama olasılığı

${}^0S_D^{BS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı birlikte simetrik bulunmama olasılığı

${}^0S_D^{IS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı birlikte ilk simetrik bulunmama olasılığı

${}^0S_D^{ISS,BS,B}$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı birlikte ilk düzgün simetrik bulunmama olasılığı

$S_T^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu toplam simetrik bulunmama olasılığı

$S_{0,T}^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımsız toplam simetrik bulunmama olasılığı

$S_{D,T}^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımlı toplam simetrik bulunmama olasılığı

${}_0S_T^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu toplam simetrik bulunmama olasılığı

${}_0S_{0,T}^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımsız toplam simetrik bulunmama olasılığı

${}_0S_{D,T}^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımlı toplam simetrik bulunmama olasılığı

${}^0S_T^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bir bağımsız durumlu toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bir bağımsız durumlu toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bağımsız durumlu toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bağımsız durumlu toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımsız durumlu toplam simetrik bulunmama olasılığı

${}^0S_{0,T}^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımsız toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bir bağımsız durumlu bağımsız toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bağımsız durumlu bağımsız toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı

dizilimli bağımlı-bağımsız durumlu bağımsız toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımsız durumlu bağımsız toplam simetrik bulunmama olasılığı

${}^0S_{D,T}^B$ : bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımlı toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bir bağımsız durumlu bağımlı toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı-bağımsız durumlu bağımlı toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bağımsız durumlu bağımlı toplam simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımsız durumlu bağımlı toplam simetrik bulunmama olasılığı

## DURUM SAYISI OLAY SAYISINDAN KÜÇÜK DAĞILIMLAR

# E

### Durum Sayısı Olay Sayısından Küçük veya Bağımlı ve Bir Bağımsız Olasılık Dağılımları

#### E1 Farklı Dizilimli

- Olasılık
- Olasılık Dağılım Sayısı
- Simetri Hesabı
- Olasılık Dağılımları

#### E2 Farklı Dizilimsiz

- Olasılık
- Olasılık Dağılım Sayısı
- Simetri Hesabı
- Olasılık Dağılımları

Bir önceki bölümde bağımlı durum sayısı bağımlı olay sayısına eşit ve bağımsız olasılıklı bir dağılımla oluşturulabilecek dağılımların, olasılık dağılım sayısı, olasılık ve simetrik olasılıkları incelendi. Bağımlı durum sayısı bağımlı olay sayısına eşit olduğunda farklı dizilimsiz bir dağılım elde edilebileceğinden ve bu dağılımın bağımsız olasılıklı bir dağılımıyla elde edilebilecek farklı dizilimsiz olasılık dağılımları farklı dizilimli bir dağılım ve bağımsız olasılıklı bir dağılıma eşit olacağından farklı dizilimsiz dağılımlar incelenmedi. Bu bölümde ise bağımlı durum sayısı bağımlı olay sayısından

büyük ve bağımsız olasılıklı bir dağılımla (bağımlı durumlardan farklı bir durumun bağımsız olasılıklı seçimiyle) oluşturulabilecek dağılımlar, farklı dizilimli ve farklı dizilimsiz dağılımlarla incelenecektir. Bölüm D'de olduğu gibi bu bölümün de hem farklı dizilimli hem de farklı dizilimsiz dağılımlarının seçim içeriği durum sayısı bir ( $d = 1$ ) olan dağılımların, bağımlı ve bir bağımsız olasılıklı dağılımları incelenecektir. Bu dağılımlar, bağımsız olasılıklı dağılımların bir dağılımıyla (aynı bağımsız durumun) veya bağımlı durumlardan farklı bir durumun bağımsız olasılıklı seçimiyle elde edilebildiğinden, bir bağımsız olasılıklı denilecektir. Bu bölümü, bir önceki bölümden ayırabilmek için farklı dizilimli dağılımlar ve bir bağımsız olasılıklı dağılımla elde edilebilecek dağılımların tanımlamalarında *bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli* tanımlaması kullanılacaktır. Farklı dizilimsiz dağılımlar ve bir bağımsız olasılıklı dağılımla elde edilebilecek dağılımların tanımlamalarında ise *bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz* tanımlaması kullanılacaktır. Bu bölümün hem farklı dizilimli hem farklı dizilimsiz dağılımlarında da durum sayısı (bağımlı) olay sayısından küçük ( $D < n$ ) olabilir. Fakat böyle bir sınırlama yoktur, çünkü bağımlı ve bir bağımsız olasılıklı büyük dağılımlar, bağımlı durumların kendinden daha az bağımlı olaya dağılımı ve bir bağımsız olasılıklı dağılımla elde edilebilen dağılımlardır. Durum sayısı olay sayısından büyük olduğunda yine durum sayısı olay sayısından küçük dağılımlar tanımlaması kullanılacaktır. Bu bölüm iki farklı alt bölümde verilecektir. Farklı dizilimli dağılımlar E1 alt bölümünde, farklı dizilimsiz dağılımlar ise E2 alt bölümünde incelenecektir. Her iki alt bölüm eşitliklerinin çıkarılmasında VDOİHİ'nin önceki bölümlerinde verilen eşitliklerden yararlanılarak yeni eşitlikler elde edilebilecektir.



# E1

## Bağımlı ve Bir Bağımsız Olasılıklı Büyük Farklı Dizilimli Dağılımlar

- Olasılık
- Olasılık Dağılım Sayısı
- Simetri Hesabı
- Olasılık Dağılımları

## BAĞIMLI ve BİR BAĞIMSIZ OLASILIKLI BÜYÜK FARKLI DİZİLİMLİ DAĞILIMLAR

Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlar, bağımlı durumların kendi sayılarından az bağımlı olaylara yapılabilecek her bir dağılımının bir bağımsız olasılıklı dağılımıyla veya durum sayısından büyük olaylara dağılımıyla elde edilebilir. Aynı dağılımlar, durumlardan birinin bağımsız olaylara bağımsız olasılıklı seçimi ve kalan durumların, kendi sayılarından az bağımlı olaya bağımlı olasılıklı farklı dizilimli seçimiyle de elde edilebilir. Bu dağılımlardaki bağımlı olasılıklı durumlar her bir

dağılımda yalnız bir defa bulunabilir. Bu dağılımlar farklı dizilimli dağılımla elde edilebileceğinden, simetrik olasılıklarla ters simetrik olasılıklar bir birine eşit olur. Toplam simetrik olasılık, simetrik ve ters simetrik olasılığın toplamına eşit olacağından, bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlarda da toplam simetrik olasılık; simetrik ve ters simetrik olasılıkların toplamına eşit olur.

Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlarda, bağımsız olasılıklı dağılımlar içerisindeki özel dağılımlardır. Bu bölümde çıkarılacak eşitlikler özellikle yapay zeka ve genetik uygulamalarında yaygın kullanımı olabilir. Bu alt bölümün eşitlik ve tanımlamaları, önceki bölümlerde izlenen sıralamada verilecektir.

Bu bölümde, yapılacak her bir seçimde bir durumun belirlenebileceği *bağımlı durum sayısı bağımlı olay sayısından büyük* ( $D > n$  ve " $n$ : bağımlı olay sayısı") seçimlerle elde edilebilecek, bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlar incelenecektir. Bu dağılımlarda bulunabilecek simetrik durumlar, dağılımın başladığı durumlara göre ayrı ayrı incelenecektir. Bağımsız durumla başlayan dağılımlar, bağımsız durumdan/lardan sonraki ilk bağımlı durumuna (olasılık dağılımında soldan sağa ilk bağımlı durum) göre sınıflandırılacak ve aynı yöntemle simetri bağımsız durumla başladığında, simetrinin başladığı bağımlı durum belirlenecektir.

Olasılık dağılımları; simetrisinin başladığı bağımlı durumla başlayan dağılımlar, simetride bulunmayan bir bağımlı durumla başlayan dağılımlar ve simetride bulunmayan bağımlı durumlarla başlayan dağılımlar olarak sınıflandırılır. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlarda, bağımlı olasılıklı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlarda olduğu gibi simetride bulunan bağımlı durumlarla başlayan dağılımlardan sadece simetrisinin ilk bağımlı durumuyla başlayan dağılımlarda simetrik durumlar bulunabilir.

Olasılık dağılımları ilk bağımlı durumuna göre sınıflandırılacağından, aynı bağımlı durumla başlayan olasılık dağılımları, iki farklı dağılım türünden oluşabilir. Bu dağılım türleri, bağımsız durumla başlayan dağılımlar ve bağımlı durumla başlayan dağılımlardır. Bağımsız durumla başlayan dağılımların ilk bağımlı durumu, simetrisinin ilk bağımlı durumu olan dağılımlar, simetrisinin ilk bağımlı durumuyla başlayan dağılımlar olarak alınır. Eğer bağımsız durumla başlayan dağılımların ilk bağımlı durumu, simetride bulunmayan aynı bir bağımlı durum olan dağılımlar, simetride bulunmayan bir bağımlı durumla başlayan dağılımlar olarak alınır. Yada bağımsız durumla başlayan dağılımların ilk bağımlı durumu, simetride bulunmayan bağımlı durumlar olan dağılımların tamamı, simetride bulunmayan bağımlı durumlarla başlayan dağılımlar olarak alınır. Bağımlı durumla başlayan dağılımlardan, ilk bağımlı durum, simetrisinin ilk bağımlı durumu olan dağılımlar, simetrisinin ilk bağımlı durumuyla başlayan dağılımlara dahil edilir. Eğer olasılık dağılımlarından, ilk bağımlı durumu, simetride bulunmayan aynı bağımlı durum olan dağılımlar, simetride bulunmayan bir bağımlı durumla başlayan dağılımlara dahil edilir. Eğer olasılık dağılımlarından, ilk bağımlı durumu, simetride bulunmayan bağımlı durumlar olan dağılımların tümü, simetride bulunmayan bağımlı durumlarla başlayan dağılımlara dahil edilir. Bu iki dağılım türü ilk bağımlı durumlarına göre aynı bağımlı durumlu dağılımları oluşturur. Bu bölümde de iki dağılım türü de aynı bağımlı durumla başlayan dağılımlar altında hem birlikte hem de ayrı ayrı incelenecektir.

Simetri, bağımlı ve/veya bağımsız durumlarının bulunabileceği sıralamaya göre sınıflandırılır. Simetri durumlarına göre; bağımlı durumla başlayıp bağımlı durumla biten (bağımlı-bağımlı veya sadece bağımlı durumlu), bağımsız durumla başlayıp bağımlı durumla biten (bağımsız-bağımlı), bir bağımlı durumla başlayıp bir bağımsız durumla biten (bir bağımlı-bir bağımsız), bağımlı durumla başlayıp bir bağımsız durumla biten (bağımlı-bir bağımsız), bir bağımlı durumla başlayıp bağımsız durumla biten (bir bağımlı-bağımsız), bağımlı durumla başlayıp bağımsız durumla biten (bağımlı-bağımsız) ve bağımsız durumla başlayıp bağımlı durumları bulunup bağımsız durumla biten (bağımsız-bağımlı-bağımsız veya bağımsız-bağımsız) yedi farklı simetri incelemesi ayrı ayrı yapılacaktır.

Simetri, durumlarının bulunduğu sıralamaya göre sınıflandırılarak, hem olasılık dağılımlarının başladığı durumlara göre hem de bunların bağımsız durumla başlayan dağılımları ve bağımlı durumla başlayan dağılımlarına göre; simetrik, düzgün simetrik ve düzgün olmayan simetrik olasılıklar olarak incelenecektir. Bu simetrik olasılıkların inceleneceği ciltlerde birlikte simetrik olasılık eşitlikleri de verilecektir.

Bağımlı ve bir bağımsız olasılıklı büyük farklı dizimli dağılımlardaki, simetrik ve düzgün simetrik olasılık eşitlikleri hem olasılık dağılım tablo değerlerinden hem de teorik yöntemle çıkarılabilir. Bu bölümde bir önceki bölümün eşitliklerinin çıkarılmasında izlenen yöntemle yeni eşitlikler çıkarılabileceği gibi bir önceki bölümün eşitliklerinin uyum eşitlikleriyle çarpımı kullanılarak da eşitlikler teorik olarak çıkarılabilecektir. Böylece formül çıkarmada kullanılan yöntem genişletilecektir.

Bağımlı ve bir bağımsız olasılıklı büyük farklı dizimli dağılımlardaki, düzgün olmayan simetrik olasılıklar ise sadece teorik yöntemlerle çıkarılacaktır. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizimli dağılımların inceleneceği ciltlerde, bulunmama olasılıklarının eşitlikleri için sadece çıkarılabileceği eşitlikler verilecektir.

## **SİMETRİNİN İLK BAĞIMLI DURUMUYLA BAŞLAYAN DAĞILIMLARIN DÜZGÜN SİMETRİK OLASILIĞI**

Simetrik olasılık; düzgün simetrik durumların bulunduğu dağılımlar ile düzgün olmayan simetrik durumların bulunduğu dağılımların toplamı veya düzgün simetrik olasılık ile düzgün olmayan simetrik olasılıkların toplamıdır. Düzgün simetrik olasılık, olasılık dağılımlarında simetrisinin durumları arasında farklı bir durum bulunmayan ve aynı sayıda bağımsız durum bulunan dağılımların sayısına veya simetrisinin durumlarının aynı sıralama sayısında bulunabildiği dağılımların sayısına düzgün simetrik olasılık denir. Simetri, bağımlı ve bağımsız durumlardan oluşabileceğinden, hem simetri hem de düzgün simetrisinin bulunduğu dağılımlarda bağımsız durumun dağılımdaki sırası yerine, simetrideki sayısı dikkate alınır. Olasılık dağılımında simetrisinin durumları arasında, simetride bulunmayan bir durum bulunduğu dağılımlara veya simetrisinin durumlarının aynı sıralama sayısında bulunamadığı dağılımlar, düzgün olmayan simetrisinin bulunduğu dağılımlardır. Bu dağılımların sayısına düzgün olmayan simetrik olasılık denir.

Düzgün simetrik olasılığın verileceği ciltlerdeki eşitlikler hem olasılık dağılım tablo değerlerinden hem de teorik yöntemle çıkarılacaktır. Bu nedenle ilk düzgün simetrik olasılık eşitlikleri de hem olasılık dağılım tablo değerlerinden hem de teorik yöntemle çıkarılacaktır.

Bağımsız olasılıklı durumla başlayan dağılımlardaki ilk düzgün simetrik olasılığın sabit değişkenli işlem uzunluklu eşitliği, aynı şartlı ilk düzgün simetrik olasılığın sabit değişkenli işlem uzunluklu eşitliğinde  $n_i$  üzerinden toplam alımında  $n$  yerine  $n - 1$  yazılmasıyla teorik yöntemle elde edilebilecektir.

Bağımlı olasılıklı durumla başlayan dağılımlardaki ilk düzgün simetrik olasılığın eşitliği, aynı şartlı ilk düzgün simetrik olasılık eşitliğinden, aynı şartlı bağımsız durumlarla başlayan dağılımların ilk düzgün simetrik olasılık eşitliğinin farkından teorik yöntemle elde edilebileceği gibi aynı şartlı ilk düzgün simetrik olasılığın sabit değişkenli işlem uzunluklu

eşitliğinde  $n_i$  üzerinden toplam alımında  $n_i$  yerine toplam alınmadan  $n$  yazılmasıyla da teorik yöntemle elde edilebilecektir.

Sadece bağımsız durumla başlayan veya sadece bağımlı durumla başlayan dağılımların ilk düzgün simetrik olasılık eşitlikleri, *simetrisiyle ilişkili* eşitliklerle de verilecektir. Bu eşitlikler simetrisinin ilk durumuyla başlayan dağılımlardaki aynı şartlı ilk düzgün simetrik olasılık eşitliğinin, belirli değişkenlerle çarpımından, teorik yöntemle elde edilebilir.

Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlardan, simetrisinin ilk bağımlı durumuyla başlayan dağılımların düzgün simetrik olasılık eşitliklerinin tamamı aynı şartlı bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımların ilk düzgün simetrik olasılık eşitliklerinden de elde edilebilir.

Bu ciltte bağımlı-bağımlı veya kısaca bağımlı ve bağımsız-bağımlı durumlu simetrilerin, hem bağımsız durumla başlayıp sonraki ilk bağımlı durumunda simetrisinin ilk bağımlı durumu bulunan ve simetrisinin ilk bağımlı durumuyla başlayan dağılımlar hem bağımsız durumla başlayıp sonraki ilk bağımlı durumunda simetrisinin ilk bağımlı durumu bulunan hem de simetrisinin ilk bağımlı durumuyla başlayan dağılımlardaki, ilk düzgün simetrik, simetrisiyle ilişkili ilk düzgün simetrik ve ilk düzgün simetrik bulunmama olasılığının eşitlikleri verilecektir.

## BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİ

Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde  $\{1, 2, 3, 4, 5\}$  veya  $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$ , bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlardan, simetrimin başladığı bağımlı durumla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrimin başladığı bağımlı durum bulunan dağılımlardaki düzgün simetrik olasılıklar; bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlarda ilk düzgün simetrik olasılığın üçüncü uyum eşitliğiyle çarpımına eşit olur. Simetri bağımlı durumlardan oluştuğunda  $\{1, 2, 3, 4, 5\}$ , simetrimin başladığı durumla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrimin başladığı bağımlı durum bulunan dağılımlardaki, düzgün simetrik olasılıklar için;

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s+1)!}{i! \cdot (n-s+1)!}$$

veya  $n = n - i$  yazıldığında,

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s+1)!}{i! \cdot (n-i-s+1)!}$$

veya

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)}^n \sum_{n_s=n_i-j_i+1} \frac{(n_i-s)!}{(n_i-n)! \cdot (n-s)!}$$

veya simetri bağımlı durumla başlayıp, bağımsız durumları bulunup bağımlı durumla bittiğinde  $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$ ,

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-s+1)!}{(i-I)! \cdot (n+I-s+1)}$$

veya bu eşitlikte  $n$  yerine  $n = n - i$  yazıldığında,

$$S^{iss} = \frac{(D-s)!}{(D+i-n)!} \cdot \frac{1}{(n-i-s)!} \cdot \frac{(n-s+1)!}{(i-I)! \cdot (n+I-i-s+1)}$$

veya  $s = s + I$  olacağından,

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-s-I+1)!}{(i-I)! \cdot (n-s+1)}$$

veya bu eşitlikte  $n$  yerine  $n = n - i$  yazıldığında,

$$S^{iss} = \frac{(D-s)!}{(D+l-n)!} \cdot \frac{1}{(n-l-s)!} \cdot \frac{(n-s-l+1)!}{(l-l)! \cdot (n-l-s+1)}$$

veya

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n+k)} \sum_{n_s=n_i-j_i-k+1} \frac{(n_i-s-k)!}{(n_i-n-k)! \cdot (n-s)!}$$

veya simetri bağımlı durumla başlayıp, bağımsız durumları bulunup bağımlı durumla bittiğinde  $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$ , aynı şartlı ilk simetrik olasılık eşitliğinde düzenleme yapıldığında;

$$S^{iss} = \prod_{z=3}^s \sum_{((j_i)_1=2)}^{()} \sum_{(j_{ik})_{z-1}=z-1} \sum_{((j_i)_{z-1}=z \forall z=s \Rightarrow s)}^{()} \sum_{n_i=n+k}^n \sum_{((n_{ik})_1=n_i-(j_i)_1-\sum_{i=1}^k k_i+1)}^{()} \sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}^k k_i} \sum_{((n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}^k k_i)}^{()} \frac{(D-s)!}{(D-s-(j_i)_1+2)!} \cdot \frac{(D-s-(j_{ik}-j_{sa}^k)_{z-1})!}{(D-s-(j_i)_{z-1}+(j_{ik})_{z-1}-(j_{ik}-j_{sa}^k)_{z-1}+1)!} \cdot \frac{(D-(j_i)_{z=s})!}{(D-n)!} \cdot \frac{(n_i-(n_{ik})_1-1)!}{((j_i)_1-2)! \cdot (n_i-(n_{ik})_1-(j_i)_1+1)!} \cdot \frac{((n_{ik})_{z-1}-(n_s)_{z-1}-1)!}{((j_i)_{z-1}-(j_{ik})_{z-1}-1)! \cdot ((n_{ik})_{z-1}+(j_{ik})_{z-1}-(n_s)_{z-1}-(j_i)_{z-1})!} \cdot \frac{((n_s)_{z=s}-1)!}{((n_s)_{z=s}+(j_i)_{z=s}-n-1)! \cdot (n-(j_i)_{z=s})!}$$

eşitlikleri elde edilir. Bu eşitliklere bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu ilk düzgün simetrik olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlarda, simetri bağımlı durumla başlayıp bağımlı durumla

bittiğinde; simetrisinin ilk bağımlı durumuyla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin başladığı durum bulunan dağılımlarda, düzgün simetrik durumların bulunduğu dağılımların sayısına **bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu ilk düzgün simetrik olasılık** denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu ilk düzgün simetrik olasılık  $S^{ISS}$  ile gösterilecektir.

Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardan, simetrisinin ilk bağımlı durumuyla başlayan dağılımlarda, simetri bağımlı durumlardan oluştuğundaki ilk düzgün simetrik olasılık VDOİHİ cilt 2.1.3'de,

$${}_{D=n<n}S^{ISS} = \frac{(n-s+1)!}{l! \cdot (D-s+1)!} \cdot S_{D=n}^{ISS}$$

ve VDOİHİ cilt 2.1.3'de ilk simetrik olasılık,

$${}_{D=n<n}S^{IS} = S_{D=n}^{IS} \cdot U$$

verilmiştir. VDOİHİ cilt 1'de ilk düzgün simetrik olasılık,

$$S_{D=n}^{ISS} = S_{D=n}^{IS} \cdot \frac{(s-1)! \cdot (D-s)!}{(D-1)!}$$

verildiğinden, yukarıda verilen ilk eşitlikte yazıldığında,

$${}_{D=n<n}S^{ISS} = S_{D=n}^{IS} \cdot \frac{(n-s+1)!}{l! \cdot (D-s+1)!} \cdot \frac{(s-1)! \cdot (D-s)!}{(D-1)!}$$

ve  $l = n - D$  olduğundan,

$${}_{D=n<n}S^{ISS} = S_{D=n}^{IS} \cdot \frac{(n-s+1)!}{(n-D)! \cdot (D-s+1)!} \cdot \frac{(s-1)!}{(D-1)!}$$

$${}_{D=n<n}S^{ISS} = S_{D=n}^{IS} \cdot \frac{n!}{(n-D)! \cdot D!} \cdot \frac{(n-s+1)! \cdot (s-1)! \cdot D}{n! \cdot (D-s+1)}$$

ve eşitliğin sağındaki  $\frac{n!}{(n-D)! \cdot D!}$  terim  $U$  eşit olduğundan,

$${}_{D=n<n}S^{ISS} = U \cdot S_{D=n}^{IS} \cdot \frac{(n-s+1)! \cdot (s-1)! \cdot D}{n! \cdot (D-s+1)}$$

ve  ${}_{D=n<n}S^{IS} = S_{D=n}^{IS} \cdot U$  eşitliğinden  $S_{D=n}^{IS} = \frac{{}_{D=n<n}S^{IS}}{U}$  elde edilip son eşitlikte yazıldığında,

$${}_{D=n<n}S^{ISS} = {}_{D=n<n}S^{IS} \cdot \frac{(n-s+1)! \cdot (s-1)! \cdot D}{n! \cdot (D-s+1)}$$

ve bu eşitlik bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu ilk düzgün simetrik olasılık  ${}_{D>n<n}S^{ISS} = U_3 \cdot {}_{D=n<n}S^{IS}$  eşitliğinde  $D \rightarrow n$  yapılarak yazıldığında,

$${}_{D>n<n}S^{ISS} = U_3 \cdot {}_{D=n<n}S^{IS} \cdot \frac{(n-s+1)! \cdot (s-1)! \cdot n}{n! \cdot (n-s+1)}$$

ilişkisi elde edilir. Ayrıca yukarıda verilen

$${}_{D=n<n}S^{IS} = S_{D=n}^{IS} \cdot U$$

eşitliğin sağındaki  $S_{D=n}^{IS}$  terim VDOİHİ cilt 1'de verilen  $S_{D=n}^{IS} = S_{D=n} \cdot \frac{s}{n}$  eşitliği yazıldığında,

$${}_{D=n<n}S^{IS} = U \cdot S_{D=n} \cdot \frac{s}{n}$$

ve VDOİHİ cilt 2.1.1'de verilen simetrik olasılığın  ${}_{D=n<n}S = U \cdot S_{D=n}$  eşitliğinden  $S_{D=n} = \frac{{}_{D=n<n}S}{U}$  son eşitlikte yazıldığında,

$${}_{D=n<n}S^{IS} = {}_{D=n<n}S \cdot \frac{s}{n}$$

ve bu eşitlikte yukarıdaki  ${}_{D>n<n}S^{ISS} = U_3 \cdot {}_{D=n<n}S^{IS} \cdot \frac{(n-s+1)! \cdot (s-1)! \cdot n}{n! \cdot (n-s+1)}$  eşitlikte yazıldığında,

$${}_{D>n<n}S^{ISS} = U_3 \cdot {}_{D=n<n}S \cdot \frac{s}{n} \cdot \frac{(n-s+1)! \cdot (s-1)! \cdot n}{n! \cdot (n-s+1)}$$

$${}_{D>n<n}S^{ISS} = U_3 \cdot {}_{D=n<n}S \cdot \frac{(n-s+1)! \cdot s!}{n! \cdot (n-s+1)}$$

ilişkisi elde edilir. Böylece bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlardaki düzgün simetrik olasılıklarla (simetri bağımlı durumlardan oluştuğunda) bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımların simetrik olasılığıyla ilişki kurulmuş olur. Benzer ilişkiler bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlar içinde kurulabilir. Yukarıda verilen

$${}_{D>n<n}S^{ISS} = U_3 \cdot {}_{D=n<n}S^{IS} \cdot \frac{(n-s+1)! \cdot (s-1)! \cdot n}{n! \cdot (n-s+1)}$$

eşitliğin sağındaki  ${}_{D=n<n}S^{IS}$  terimi yerine bu cildin simetri bağımlı durumlardan oluştuğundaki ilk simetrik olasılığında verilen  ${}_{D>n<n}S^{IS} = U_3 \cdot {}_{D=n<n}S^{IS}$  eşitliğinden

$${}_{D=n<n}S^{IS} = \frac{{}_{D>n<n}S^{IS}}{U_3}$$
 eşitliği yazıldığında,

$${}_{D>n<n}S^{ISS} = U_3 \cdot {}_{D=n<n}S^{IS} \cdot \frac{(n-s+1)! \cdot (s-1)! \cdot n}{n! \cdot (n-s+1)}$$

$${}_{D>n<n}S^{ISS} = {}_{D>n<n}S^{IS} \cdot \frac{(n-s+1)! \cdot (s-1)! \cdot n}{n! \cdot (n-s+1)}$$



ilişkisi elde edilir. Yukarıdaki  ${}_{D>n<n}S^{iss} = U_3 \cdot {}_{D=n<n}S \cdot \frac{(n-s+1)! \cdot s!}{n! \cdot (n-s+1)}$  eşitliğin sağındaki  $U_3 \cdot {}_{D=n<n}S$  terimleri  ${}_{D>n<n}S = U_3 \cdot {}_{D=n<n}S$ 'e eşit olduğundan,

$${}_{D>n<n}S^{iss} = {}_{D>n<n}S \cdot \frac{(n-s+1)! \cdot s!}{n! \cdot (n-s+1)}$$

ilişkisi elde edilir.

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

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s+1)!}{(n-n)! \cdot (n-s+1)!}$$

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

$$S^{iss} = \frac{(D-s)!}{(D+l-n)!} \cdot \frac{(n-s+1)!}{l! \cdot (n-l-s+1)!}$$

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

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1}^n \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n_i-s+1}^n \frac{(n_i-s)!}{(n_i-n)! \cdot (n-s)!}$$

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

$$S^{iss} = \frac{(D+I-s)!}{(D-n)!} \cdot \frac{1}{(n+I-s)!} \cdot \frac{(n-s+1)!}{(l-I)! \cdot (n+I-s+1)!}$$

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

$$S^{iss} = \frac{(D+I-s)!}{(D+l-n)!} \cdot \frac{1}{(n+I-l-s)!} \cdot \frac{(n-s+1)!}{(l-I)! \cdot (n+I-l-s+1)!}$$

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

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s-I+1)!}{(l-I)! \cdot (n-s+1)!}$$

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

$$S^{iss} = \frac{(D-s)!}{(D+l-n)!} \cdot \frac{(n-s-I+1)!}{(l-I)! \cdot (n-l-s+1)!}$$

$$D \geq n < n \wedge I = \mathbb{k} \wedge \mathbb{k}_z: z \geq 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n+k)}^n \sum_{n_s=n_i-s-k+1} \frac{(n_i-s-k)!}{(n_i-n-k)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = k > 0 \wedge s = s + k \wedge k_z: z = 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=n+k)}^{(n)} \sum_{n_{sa}=n_i-j^{sa}-k+1} \frac{(n_i-s-k)!}{(n_i-n-k)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = k > 0 \wedge s = s + k \wedge k_z: z = 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=n+k)}^{(n)} \sum_{n_{sa}=n_i-j^{sa}-k+1} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = k > 0 \wedge s = s + k \wedge k_z: z = 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=n+k)}^{(n)} \sum_{n_{sa}=n_i-j^{sa}-k+1} \frac{(n_i-s-k)!}{(n_i-n-k)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = k > 0 \wedge s = s + k \wedge k_z: z = 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=n+k)}^{(n)} \sum_{n_{sa}=n_i-j^{sa}-k+1} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = k > 0 \wedge s = s + k \wedge k_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{(n_i=n+k)}^{(n)} \sum_{n_{sa}=n_i-j^{sa}-k+1}$$

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

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S^{\text{ISS}} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{ik}+j_{ik}-s-\mathbb{k}-1)!}{(n_{ik}+j_{ik}-n-\mathbb{k}-1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S^{\text{ISS}} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i-s-\mathbb{k})!}{(n_i-n-\mathbb{k})! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S^{\text{ISS}} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

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$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S^{\text{ISS}} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \left( \frac{(n_i-s-\mathbb{k})!}{(n_i-n-\mathbb{k})! \cdot (n-s)!} \right)_{j^{sa}}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

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

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_s + j_{sa} - j^{sa} - s - \mathbb{k} - j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa} - j^{sa} - s - j_{sa}^s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - \mathbb{k} - 2 \cdot j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j^{sa} + j_{sa}^s - j_s - j_{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s)!}$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - \mathbb{k} - j_{sa}^{ik})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik})!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S^{ISS} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\left( \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \right)_{j_{sa}}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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

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$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i+j_s+j_{sa}-j_{ik}-s-\mathbb{k}-j_{sa}^s-1)!}{(n_i-n-\mathbb{k})! \cdot (n+j_s+j_{sa}-j_{ik}-s-j_{sa}^s-1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i+2 \cdot j_s+j_{sa}+j_{sa}^{ik}-2 \cdot j^{sa}-s-\mathbb{k}-2 \cdot j_{sa}^s+1)!}{(n_i-n-\mathbb{k})! \cdot (n+2 \cdot j_s+j_{sa}+j_{sa}^{ik}-2 \cdot j^{sa}-s-2 \cdot j_{sa}^s+1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$



$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} (n_i + j_{ik} + j_{sa}^s - j_s - j_{sa} - s - \mathbb{k} + 1)! \\ \frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa} - s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - j_{sa} - s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\ \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\frac{(n_i + j_{sa} - s - \mathbb{k} - j_{sa}^{ik} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa} - s - j_{sa}^{ik} - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_i + j_{sa}^{ik} - j_{sa} - s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{sa} - s + 1)!}$$

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

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

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$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{(\cdot)}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!}$$

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$$\frac{(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!}$$

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$$\left( \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \right)_{j^{sa}}$$

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$$\left( \frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} - s)!} \right)_{j^{sa}}$$

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$$\frac{(n_i - s - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_i + j_{sa} - s - \mathbb{k} - j_{sa}^{ik} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa} - s - j_{sa}^{ik} - 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned} S^{iss} &= \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\ &\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\ &\frac{(n_i + j_{sa} - s - k_1 - k_2 - j_{sa}^{ik} - 1)!}{(n_i - n - k_1 - k_2)! \cdot (n + j_{sa} - s - j_{sa}^{ik} - 1)!} \end{aligned}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} (n_i + j_{sa}^{ik} - j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{sa} - s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_i + j_s - s - \mathbb{k} - j_{sa}^s)!}{(n_i + j_s - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

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

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_{ik} + j^{sa} - j_s - s - \mathbb{k} - 1)!}{(n_{ik} + j^{sa} - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n - s)!}$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbf{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k}_2} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbf{k}_2 - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbf{k}_2 - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - s - j_{ik})!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge \mathbf{s} = s \vee$$

$$I = \mathbf{k} \wedge s > 1 \wedge \mathbf{k} > 0 \wedge \mathbf{s} = s + \mathbf{k} \wedge \mathbf{k}_z: z = 2 \wedge \mathbf{k} = \mathbf{k}_1 + \mathbf{k}_2 \vee$$

$$I = \mathbf{k} \wedge s > 1 \wedge \mathbf{k}_2 > 0 \wedge \mathbf{k}_1 = 0 \wedge \mathbf{s} = s + \mathbf{k} \wedge \mathbf{k}_z: z = 1 \wedge \mathbf{k} = \mathbf{k}_2 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbf{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k}_2} \frac{(n_{ik} + j_{sa}^{ik} + \mathbf{k}_1 - s - \mathbf{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} + \mathbf{k}_1 - \mathbf{n} - \mathbf{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - s - j_{ik})!}$$

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$$\sum_{\binom{n}{(n_i=\mathbf{n}+\mathbb{k})}} \sum_{\binom{(\ )}{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 + 2)!}{(2 \cdot n_i - n_{ik} - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

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

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$$\frac{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_s - j_{ik} - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_{ik} + j^{sa} - j_s - s - \mathbb{k}_2 - 1)!}{(n_{ik} + j^{sa} - \mathbf{n} - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k}_2 - j_{sa}^s)!}{(n_{ik} + j^{sa} - n - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j^{sa} + 1)!}$$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{sa} - s - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 + 3)!}{(2 \cdot n_i - n_{ik} - j_{sa} - \mathbf{n} - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s + 3)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(n_{sa} + j^{sa} - j_s - s)!}{(n_{sa} + j^{sa} - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_{sa} - j^{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}}{(2 \cdot n_i + j_s - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k})!} \\ \frac{1}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j_{ik} - n - j_{sa}^s + 1)! \cdot (n + j_{sa} - s - j_{ik} - 1)!}$$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j_{ik} - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_i - n_{sa} - j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s + 1)! \cdot (n-s)!}$$

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$$S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j_{ik} - n - j_{sa}^s + 1)! \cdot (n + j_{sa} - s - j_{ik} - 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j_{ik} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 1)!}{(2 \cdot n_i - n_{sa} - j_{ik} - n - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s + 1)! \cdot (n-s)!}$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\begin{aligned} S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\ &\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\frac{(2 \cdot n_{ik} + j_{ik} - n_{sa} - j_s - s - 2 \cdot \mathbb{k}_2 - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_{sa} - \mathbf{n} - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

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$$\frac{(n_i + n_{ik} + \mathbb{k}_1 - n_{sa} - s - 2 \cdot \mathbb{k} - 1)!}{(n_i + n_{ik} + j_s + \mathbb{k}_1 - n_{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\left( \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \right)_{j_i}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

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$$\frac{(n_i + j_s - j_i - \mathbb{k} - j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s - j_i - j_{sa}^s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \mathbb{k} - 2 \cdot j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

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$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

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$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

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$$\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - k - 1)!}{(n_i - n - k)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i - k - j_{sa}^{ik} - 1)!}{(n_i - n - k)! \cdot (n - j_{sa}^{ik} - 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + j_{sa}^{ik} - 2 \cdot s - k + 1)!}{(n_i - n - k)! \cdot (n + j_{sa}^{ik} - 2 \cdot s + 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\left( \frac{(n_i-s-\mathbb{k})!}{(n_i-\mathbf{n}-\mathbb{k})! \cdot (\mathbf{n}-s)!} \right)_{j_i}$$

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

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$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\left( \frac{(n_i-s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)! \cdot (\mathbf{n}-s)!} \right)_{j_i}$$

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

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$$S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

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

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$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n-s)!}$$

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

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

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$$\frac{(n_i + j_s - j_i - \mathbb{k} - j_{sa}^s)!}{(n_i - n - \mathbb{k})! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

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$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - k)!}{(n_i - n - k)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

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$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\left( \frac{(n_i - s - k)!}{(n_i - n - k)! \cdot (n - s)!} \right)_{j_i}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\left( \frac{(n_i-s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)! \cdot (\mathbf{n}-s)!} \right)_{j_i}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i - s - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n - s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i + j_s - j_{ik} - k - j_{sa}^s - 1)!}{(n_i - n - k)! \cdot (n + j_s - j_{ik} - j_{sa}^s - 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

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$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k} - 2 \cdot j_{sa}^s + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k}_1 - \mathbb{k}_2 - 2 \cdot j_{sa}^s + 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k} + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k} + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

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$$\frac{(n_i + j_s + j_{sa}^{ik} - j_i - s - \mathbb{k} - j_{sa}^s + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^s + 1)!}$$

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$$\sum_{\binom{n}{(n_i=\mathbf{n}+\mathbb{k})}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_i - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s + 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^s + 1)!}$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} (n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^{ik} - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n - j_{sa}^{ik} - 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + j_{sa}^{ik} - 2 \cdot s - \mathbb{k} + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_{sa}^{ik} - 2 \cdot s + 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_{sa}^{ik} - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_{sa}^{ik} - 2 \cdot s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{(n_i=n+\mathbb{k})}} \sum_{\binom{(\ )}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k}_2 - j_{sa}^s)!}{(n_{ik} + j_i - n - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!}$$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_i - s - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 + 3)!}{(2 \cdot n_i - n_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s + 3)! \cdot (\mathbf{n} - s)!}$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 3 \cdot k_1 - 2 \cdot k_2 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 2 \cdot k - k_1 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 2 \cdot k - k_1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot k - k_1 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 2 \cdot k - k_1 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned} S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\ &\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot \mathbb{k}_2 - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_s - \mathbf{n} - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned} S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\ &\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - j_s - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned} S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\ &\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\frac{(n_i + n_{ik} - n_s - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 1)!}{(n_i + n_{ik} + j_s - n_s - \mathbf{n} - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + n_{ik} + k_1 - n_s - s - 2 \cdot k - 1)!}{(n_i + n_{ik} + j_s + k_1 - n_s - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = k > 0 \wedge s = s + k \wedge k_z: z > 1 \Rightarrow$$

$$S^{iss} = \prod_{z=3}^s \sum_{(j_i)_{z-1}=2}^{(\ )} \sum_{(j_{ik})_{z-1}=z-1} \sum_{(j_i)_{z-1}=z \vee z=s \Rightarrow s}^{(\ )}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{ik})_1=n_i-(j_i)_{z-1}-\sum_{i=1}^{z-1} k_i+1}^{(\ )}$$

$$\sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}^{z-1} k_i}$$

$$\sum_{(n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}^{z-1} k_i}^{(\ )}$$

$$\frac{(D-s)!}{(D-s-(j_i)_1+2)!} \cdot \frac{(D-s-(j_{ik}-j_{sa}^{ik})_{z-1})!}{(D-s-(j_i)_{z-1}+(j_{ik})_{z-1}-(j_{ik}-j_{sa}^{ik})_{z-1}+1)!}$$

$$\frac{(D-(j_i)_{z=s})!}{(D-n)!}$$

$$\frac{(n_i - (n_{ik})_1 - 1)!}{((j_i)_1 - 2)! \cdot (n_i - (n_{ik})_1 - (j_i)_1 + 1)!}$$

$$\frac{((n_{ik})_{z-1} - (n_s)_{z-1} - 1)!}{((j_i)_{z-1} - (j_{ik})_{z-1} - 1)! \cdot ((n_{ik})_{z-1} + (j_{ik})_{z-1} - (n_s)_{z-1} - (j_i)_{z-1})!} \cdot \frac{((n_s)_{z=s} - 1)!}{((n_s)_{z=s} + (j_i)_{z=s} - \mathbf{n} - 1)! \cdot (\mathbf{n} - (j_i)_{z=s})!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z > 1 \Rightarrow$$

$$S^{\text{iss}} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{1}{(\mathbf{n}-s)!} \cdot \prod_{z=3}^s \sum_{(j_i)_1=2}^{(\cdot)} \sum_{(j_{ik})_{z-1}=z-1} \sum_{(j_i)_{z-1}=z \vee z=s \Rightarrow s}^{(\cdot)} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik})_1=n_i-(j_i)_1-\sum_{i=1}^{\mathbb{k}_i} \mathbb{k}_i+1}^{(\cdot)} \sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}^{\mathbb{k}_i} \mathbb{k}_i} \sum_{(n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}^{\mathbb{k}_i} \mathbb{k}_i}^{(\cdot)} \frac{(n-s)!}{(n-s-(j_i)_1+2)!} \cdot \frac{(\mathbf{n}-s-(j_{ik}-j_{sa}^{ik})_{z-1})!}{(\mathbf{n}-s-(j_i)_{z-1}+(j_{ik})_{z-1}-(j_{ik}-j_{sa}^{ik})_{z-1}+1)!} \cdot \frac{(n-(j_i)_{z=s})!}{(n-\mathbf{n})!} \cdot \frac{(n_i-(n_{ik})_1-1)!}{((j_i)_1-2)! \cdot (n_i-(n_{ik})_1-(j_i)_1+1)!} \cdot \frac{((n_{ik})_{z-1} - (n_s)_{z-1} - 1)!}{((j_i)_{z-1} - (j_{ik})_{z-1} - 1)! \cdot ((n_{ik})_{z-1} + (j_{ik})_{z-1} - (n_s)_{z-1} - (j_i)_{z-1})!} \cdot \frac{((n_s)_{z=s} - 1)!}{((n_s)_{z=s} + (j_i)_{z=s} - \mathbf{n} - 1)! \cdot (\mathbf{n} - (j_i)_{z=s})!}$$

## BAĞIMSIZ DURUMLA BAŞLAYAN DAĞILIMLARDA BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİ

Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde  $\{1, 2, 3, 4, 5\}$  veya  $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$ , bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlardan, bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin başladığı bağımlı durum bulunan dağılımlardaki düzgün simetrik olasılıklar; bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik olasılığın üçüncü uyum eşitliğiyle çarpımına eşit olur. Simetri bağımlı durumlardan oluştuğunda  $\{1, 2, 3, 4, 5\}$ , son olayı bağımsız durumla başlayıp sonraki ilk bağımlı durumu, simetrisinin ilk durumu olan dağılımlardaki, düzgün simetrik olasılıklar için;

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s)!}{(l-1)! \cdot (n-s+1)!}$$

veya

$$S_0^{iss} = \frac{(D-s)!}{(D+l-n)!} \cdot \frac{(n-s)!}{(l-1)! \cdot (n-l-s+1)!}$$

veya

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_l=s)} \sum_{(n_i=n)}^{n-1} \sum_{n_s=n_i-s+1} \frac{(n_i-s)!}{(n_i-n)! \cdot (n-s)!}$$

veya simetri bağımlı durumla başlayıp, bağımsız durumları bulunup bağımlı durumla bittiğinde  $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$ ,

$$S_0^{iss} = \frac{(D+l-s)!}{(D-n)!} \cdot \frac{(n-s)!}{(l-l-1)! \cdot (n+l-s+1)!}$$

ve  $s = s + l$  olacağından,

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s-l)!}{(l-l-1)! \cdot (n-s+1)!}$$

veya

$$S_0^{iss} = \frac{(D+l-s)!}{(D+l-n)!} \cdot \frac{(n-s)!}{(l-l-1)! \cdot (n+l-l-s+1)!}$$

ve  $s = s + l$  olacağından,

$$S_0^{iss} = \frac{(D-s)!}{(D+l-n)!} \cdot \frac{(n-s-l)!}{(l-l-1)! \cdot (n-l-s+1)!}$$

veya

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n+k)}^{n-1} \sum_{n_s=n_i-s-k+1} \frac{(n_i-s-k)!}{(n_i-n-k)! \cdot (n-s)!}$$

veya

$$S_0^{iss} = \prod_{z=3}^s \sum_{((j_i)_1=2)}^{()} \sum_{(j_{ik})_{z-1}=z-1} \sum_{((j_i)_{z-1}=z \vee z=s \Rightarrow s)}^{()} \sum_{n_i=n+k}^{n-1} \sum_{((n_{ik})_1=n_i-(j_i)_1-\sum_{i=1}^{k_i} k_i+1)}^{()} \sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}^{k_i} k_i} \sum_{((n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}^{k_i} k_i)}^{()} \frac{(D-s)!}{(D-s-(j_i)_1+2)!} \cdot \frac{(D-s-(j_{ik}-j_{sa}^{ik})_{z-1})!}{(D-s-(j_i)_{z-1}+(j_{ik})_{z-1}-(j_{ik}-j_{sa}^{ik})_{z-1}+1)!} \cdot \frac{(D-(j_i)_{z=s})!}{(D-n)!} \cdot \frac{(n_i-(n_{ik})_1-1)!}{((j_i)_1-2)! \cdot (n_i-(n_{ik})_1-(j_i)_1+1)!} \cdot \frac{((n_{ik})_{z-1}-(n_s)_{z-1}-1)!}{((j_i)_{z-1}-(j_{ik})_{z-1}-1)! \cdot ((n_{ik})_{z-1}+(j_{ik})_{z-1}-(n_s)_{z-1}-(j_i)_{z-1})!} \cdot \frac{((n_s)_{z=s}-1)!}{((n_s)_{z=s}+(j_i)_{z=s}-n-1)! \cdot (n-(j_i)_{z=s})!}$$

eşitlikleri elde edilir. Bu eşitliklere bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli olasılık dağılımlarında, simetri bağımlı durumla başlayıp bağımlı durumla bittiğinde; bağımsız durumla başlayıp sonra simetrisinin ilk bağımlı durumu bulunan dağılımlarda, düzgün simetrik durumların bulunduğu dağılımların sayısına **bağımlı**

ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik olasılık denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik olasılık  $S_0^{ISS}$  ile gösterilecektir.

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

$$S_0^{ISS} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s)!}{(l-1)! \cdot (n-s+1)!}$$

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

$$S_0^{ISS} = \frac{(D-s)!}{(D+l-n)!} \cdot \frac{(n-s)!}{(l-1)! \cdot (n-l-s+1)!}$$

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

$$S_0^{ISS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)}^{n-1} \sum_{n_s=n_i-s+1} \frac{(n_i-s)!}{(n_i-n)! \cdot (n-s)!}$$

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

$$S_0^{ISS} = \frac{(D+l-s)!}{(D-n)!} \cdot \frac{(n-s)!}{(l-l-1)! \cdot (n+l-s+1)!}$$

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

$$S_0^{ISS} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s-l)!}{(l-l-1)! \cdot (n-s+1)!}$$

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

$$S_0^{ISS} = \frac{(D+l-s)!}{(D+l-n)!} \cdot \frac{(n-s)!}{(l-l-1)! \cdot (n+l-l-s+1)!}$$

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

$$S_0^{ISS} = \frac{(D-s)!}{(D+l-n)!} \cdot \frac{(n-s-l)!}{(l-l-1)! \cdot (n-l-s+1)!}$$

$$D \geq n < n \wedge I = \mathbb{k} \wedge \mathbb{k}_z: z \geq 1 \Rightarrow$$

$$S_0^{ISS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n+k)}^{n-1} \sum_{n_s=n_i-s-k+1}$$



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

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (n - s)!}$$

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$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

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$$D \geq n < n \wedge I = k > 0 \wedge s = s + k \wedge k_z: z = 1 \Rightarrow$$

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$$\frac{(n_{ik} + j_{ik} - s - \mathbb{k} - 1)!}{(n_{ik} + j_{ik} - n - \mathbb{k} - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

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$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_0^{ISS} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \left( \frac{(n_i - s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n - s)!} \right)_{j^{sa}}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_0^{ISS} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_0^{iSS} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s)!}$$

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$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - \mathbb{k} - j_{sa}^{ik})!}{(n_i - n - \mathbb{k})! \cdot (n + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik})!}$$

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$$\frac{(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!}$$

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$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

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$$\left( \frac{(n_i - s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n - s)!} \right)_{j_{sa}}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \mathbb{k} - 2 \cdot j_{sa}^s + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^s + 1)!}$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} (n_i + j_{ik} + j_{sa}^s - j_s - j_{sa} - s - \mathbb{k} + 1)! \\ \frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa} - s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - j_{sa} - s + 1)!}$$

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$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_i + j_{sa} - s - \mathbb{k} - j_{sa}^{ik} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa} - s - j_{sa}^{ik} - 1)!}$$

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$$\frac{(n_i + j_{sa}^{ik} - j_{sa} - s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{sa} - s + 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \vee$$

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$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\left( \frac{(n_i - s - k)!}{(n_i - n - k)! \cdot (n - s)!} \right)_{j^{sa}}$$

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$$\frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} - s)!}$$

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$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - \mathbb{k} - j_{sa}^{ik})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik})!}$$

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

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

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$$\left( \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \right)_{j^{sa}}$$

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$$\left( \frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} - s)!} \right)_{j^{sa}}$$

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$$\frac{(n_i - s - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

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$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

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$$\frac{(n_i + j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^{ik} - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_{sa} - s - j_{sa}^{ik} - 1)!}$$

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$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n_{ik} + j_{ik} + k_1 - j_s - s - k)!}{(n_{ik} + j_{ik} + k_1 - n - k - j_{sa}^s)! \cdot (n - s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

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$$S_0^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+lk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-lk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-lk_2}$$

$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - 2 \cdot lk_1 - lk_2 + 2)!}{(2 \cdot n_i - n_{ik} - j_{ik} - n - 2 \cdot lk_1 - lk_2 - j_{sa}^s + 2)! \cdot (n-s)!}$$

$$D \geq n < n \wedge lk = 0 \wedge s = s \vee$$

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$$\sum_{(n_i=n+lk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-lk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-lk_2}$$

$$\frac{(2 \cdot n_i + lk_2 - n_{ik} - j_s - j_{ik} - s - 2 \cdot lk + 2)!}{(2 \cdot n_i + lk_2 - n_{ik} - j_{ik} - n - 2 \cdot lk - j_{sa}^s + 2)! \cdot (n-s)!}$$

$$D \geq n < n \wedge lk = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = lk \wedge s > 1 \wedge lk > 0 \wedge s = s + lk \wedge lk_z: z = 2 \wedge lk = lk_1 + lk_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = lk \wedge s > 1 \wedge lk_2 > 0 \wedge lk_1 = 0 \wedge s = s + lk \wedge$$

$$lk_z: z = 1 \wedge lk = lk_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_0^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+lk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-lk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-lk_2}$$

$$\frac{(n_{ik} + j^{sa} - j_s - s - lk_2 - 1)!}{(n_{ik} + j^{sa} - n - lk_2 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge lk = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = lk \wedge s > 1 \wedge lk > 0 \wedge s = s + lk \wedge lk_z: z = 2 \wedge lk = lk_1 + lk_2 \wedge j_{ik} = j^{sa} - 1 \vee$$



$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_{ik} + j^{sa} + \mathbb{k}_1 - j_s - s - \mathbb{k} - 1)!}{(n_{ik} + j^{sa} + \mathbb{k}_1 - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n-s)!}$$

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$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k}_2 - j_{sa}^s)!}{(n_{ik} + j^{sa} - n - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j^{sa} + 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_{ik} + j_{sa}^{ik} + \mathbb{k}_1 - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} + \mathbb{k}_1 - \mathbf{n} - \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^{ik} - s - j_{sa}^{ik} + 1)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_{sa}^{ik} - 1 \vee$$

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$$S_0^{iSS} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_{sa}^{ik}=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{sa}^{ik} - s - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 + 3)!}{(2 \cdot n_i - n_{ik} - j_{sa}^{ik} - \mathbf{n} - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s + 3)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_{sa}^{ik} - 1 \vee$$

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$$\frac{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_s - j_{sa}^{ik} - s - 2 \cdot \mathbb{k} + 3)!}{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_{sa}^{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 3)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_0^{iSS} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_{sa}^{ik}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}}$$

$$\frac{(n_{sa} + j^{sa} - j_s - s)!}{(n_{sa} + j^{sa} - n - j_{sa}^s)! \cdot (n - s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_{sa} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (n - s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 2 \cdot \mathbb{k} + 3)!}{(3 \cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s + 3)! \cdot (n - s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{sa} + j_{ik} - j_s - s + 1)!}{(n_{sa} + j_{ik} - \mathbf{n} - j_{sa}^s + 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j_{ik} - \mathbf{n} - j_{sa}^s + 1)! \cdot (\mathbf{n} + j_{sa} - s - j_{ik} - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j_{ik} - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_i - n_{sa} - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 1)! \cdot (\mathbf{n} - s)!}$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j^{sa} - s - 2 \cdot \mathbb{k} + 4)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 4)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} + 2)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(n_i + n_{ik} + j_{ik} - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1)!}{(n_i + n_{ik} + j_s + j_{ik} - n_{sa} - j^{sa} - n - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s)! \cdot (n-s)!}$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_{sa} + j_{ik} - j_s - s + 1)!}{(n_{sa} + j_{ik} - n - j_{sa}^s + 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j_{ik} - n - j_{sa}^s + 1)! \cdot (n + j_{sa} - s - j_{ik} - 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j_{ik} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 1)!}{(2 \cdot n_i - n_{sa} - j_{ik} - n - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s + 1)! \cdot (n-s)!}$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j^{sa} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 + 4)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s + 4)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 + 2)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - s - 3 \cdot \mathbf{k}_1 - 2 \cdot \mathbf{k}_2 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \mathbf{n} - 3 \cdot \mathbf{k}_1 - 2 \cdot \mathbf{k}_2)! \cdot (\mathbf{n} - s)!}$$

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$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(2 \cdot n_{ik} + j_{ik} - n_{sa} - j_s - s - 2 \cdot \mathbb{k}_2 - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_{sa} - n - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n-s)!}$$

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$$\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_{sa} - j_s - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n-s)!}$$

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$$\frac{(n_i + n_{ik} - n_{sa} - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 1)!}{(n_i + n_{ik} + j_s - n_{sa} - n - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_i + n_{ik} + \mathbb{k}_1 - n_{sa} - s - 2 \cdot \mathbb{k} - 1)!}{(n_i + n_{ik} + j_s + \mathbb{k}_1 - n_{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\left( \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \right)_{j_i}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - k - 2 \cdot j_{sa}^s)!}{(n_i - n - k)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

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$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_s - j_i - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_s - j_i - j_{sa}^s)!}$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

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$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik})!}$$

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$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - k)!}{(n_i - n - k)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

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$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

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$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\left( \frac{(n_i - s - k)!}{(n_i - n - k)! \cdot (n - s)!} \right)_{j_i}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

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$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\ \sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ \left( \frac{(n_i-s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)! \cdot (n-s)!} \right)_{j_i}$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k} - 2 \cdot j_{sa}^s + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - k_1 - k_2 + 1)!}{(n_i - n - k_1 - k_2)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

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$$\frac{(n_i + j_{sa}^{ik} - 2 \cdot s - k_1 - k_2 + 1)!}{(n_i - n - k_1 - k_2)! \cdot (n + j_{sa}^{ik} - 2 \cdot s + 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \vee I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\ \sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\ \frac{(n_i + j_s - s - k - j_{sa}^s)!}{(n_i + j_s - n - k - j_{sa}^s)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

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$$D \geq n < n \wedge k = 0 \wedge s = s \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\ \sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\ \frac{(n_i + j_s - s - k - j_{sa}^s)!}{(n_i + j_s - n - k - j_{sa}^s)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_s - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s)!}{(n_i + j_s - n - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_s - s - \mathbb{k} - j_{sa}^s)!}{(n_i + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n-s)!}$$

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$$\frac{(n_i + j_s - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s)!}{(n_i + j_s - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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$$\frac{(n_{ik} + j_{ik} - j_s - s - \mathbb{k})!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - s - j_{ik})!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - \mathbb{k} + 2)!}{(2 \cdot n_i - n_{ik} - j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}}{(2 \cdot n_i + j_s - n_{ik} - j_{ik} - s - \mathbb{k})!} \\ \frac{(2 \cdot n_i + j_s - n_{ik} - j_{ik} - s - \mathbb{k})!}{(2 \cdot n_i + 2 \cdot j_s - n_{ik} - j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}$$

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$$\frac{(2 \cdot n_i + j_s - n_{ik} - j_i - s - \mathbb{k} + 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{ik} - j_i - \mathbf{n} - \mathbb{k} - j_{sa}^s + 1)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(n_{ik} + j_{ik} + \mathbb{k}_1 - j_s - s - \mathbb{k})!}{(n_{ik} + j_{ik} + \mathbb{k}_1 - n - \mathbb{k} - j_{sa}^s)! \cdot (n - s)!}$$

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$$\frac{(n_{ik} + j_i + k_1 - j_s - s - k - 1)!}{(n_{ik} + j_i + k_1 - n - k - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_{ik} + j_{sa}^{ik} - s - k_2 - j_{sa}^s)!}{(n_{ik} + j_i - n - k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s)!}{(n_{ik} + j_i + k_1 - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbf{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbf{k}_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbf{k}_2}$$

$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_i - s - 2 \cdot \mathbf{k}_1 - \mathbf{k}_2 + 3)!}{(2 \cdot n_i - n_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbf{k}_1 - \mathbf{k}_2 - j_{sa}^s + 3)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbf{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbf{k} \wedge s > 1 \wedge \mathbf{k} > 0 \wedge \mathbf{s} = s + \mathbf{k} \wedge \mathbf{k}_z: z = 2 \wedge \mathbf{k} = \mathbf{k}_1 + \mathbf{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbf{k} \wedge s > 1 \wedge \mathbf{k}_2 > 0 \wedge \mathbf{k}_1 = 0 \wedge \mathbf{s} = s + \mathbf{k} \wedge$$

$$\mathbf{k}_z: z = 1 \wedge \mathbf{k} = \mathbf{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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$$\frac{(2 \cdot n_i + \mathbf{k}_2 - n_{ik} - j_s - j_i - s - 2 \cdot \mathbf{k} + 3)!}{(2 \cdot n_i + \mathbf{k}_2 - n_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbf{k} - j_{sa}^s + 3)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbf{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbf{k} \wedge s > 1 \wedge \mathbf{k} > 0 \wedge \mathbf{s} = s + \mathbf{k} \wedge \mathbf{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(2 \cdot n_i + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(n_i + n_{ik} + j_{ik} - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(n_i + n_{ik} + j_s + j_{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

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

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_i - s - 2 \cdot \mathbb{k} + 4)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 4)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot k_1 - 2 \cdot k_2 + 2)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s + 2)! \cdot (n-s)!}$$

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$$\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

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$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s + 3)! \cdot (\mathbf{n} - s)!}$$

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

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

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$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_{ik} - \mathbf{n} - j_{sa}^s + 1)! \cdot (\mathbf{n} - j_{ik} - 1)!}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$



$$\frac{\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} (3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - \mathbf{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

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$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} (3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - \mathbf{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

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$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} (3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot \mathbb{k}_2 - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_s - n - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - j_s - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} - n_s - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 1)!}{(n_i + n_{ik} + j_s - n_s - n - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} + \mathbb{k}_1 - n_s - s - 2 \cdot \mathbb{k} - 1)!}{(n_i + n_{ik} + j_s + \mathbb{k}_1 - n_s - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{i-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\left( \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \right)_{j_{sa}}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

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

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_s + j_{sa} - j^{sa} - s - \mathbb{k} - j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa} - j^{sa} - s - j_{sa}^s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - \mathbb{k} - 2 \cdot j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j^{sa} + j_{sa}^s - j_s - j_{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s)!}$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - \mathbb{k} - j_{sa}^{ik})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik})!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!}$$

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$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \left( \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \right)_{j^{sa}}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

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

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_0^{\text{iss}} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_s + j_{sa} - j_{ik} - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa} - j_{ik} - s - j_{sa}^s - 1)!}$$

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$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \mathbb{k} - 2 \cdot j_{sa}^s + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^s + 1)!}$$

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$$\left( \frac{(n_i-s-k)!}{(n_i-n-k)! \cdot (n-s)!} \right)_{j^{sa}}$$

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$$\frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} - s)!}$$

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$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \mathbb{k} + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_i + j_s - s - k - j_{sa}^s)!}{(n_i + j_s - n - k - j_{sa}^s)! \cdot (n - s)!}$$

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$$S_0^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_{sa}^{sa}=j_{sa})}$$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - \mathbb{k} + 2)!}{(2 \cdot n_i - n_{ik} - j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}}{(2 \cdot n_i + j_s - n_{ik} - j_{ik} - s - \mathbb{k})!} \\ \frac{(2 \cdot n_i + j_s - n_{ik} - j_{ik} - s - \mathbb{k})!}{(2 \cdot n_i + 2 \cdot j_s - n_{ik} - j_{ik} - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^s - s - j_s)!}$$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j^{sa} - s - 2 \cdot k_1 - k_2 + 3)!}{(2 \cdot n_i - n_{ik} - j^{sa} - n - 2 \cdot k_1 - k_2 - j_{sa}^s + 3)! \cdot (n-s)!}$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 2 \cdot \mathbb{k} + 3)!}{(3 \cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s + 3)! \cdot (n-s)!}$$

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$$\frac{(2 \cdot n_i + j_s - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j^{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{sa} + j_{ik} - j_s - s + 1)!}{(n_{sa} + j_{ik} - n - j_{sa}^s + 1)! \cdot (n - s)!}$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j^{sa} - s - 2 \cdot \mathbb{k} + 4)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 4)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

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$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j^{sa} - n - j_{sa}^s)! \cdot (n + j_{sa} - s - j^{sa})!}$$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j^{sa} - s - 2 \cdot k_1 - 2 \cdot k_2 + 2)!}{(2 \cdot n_i - n_{sa} - j^{sa} - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s + 2)! \cdot (n-s)!}$$

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$$\sum_{(n_i=n+lk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-lk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-lk_2}$$

$$\frac{(2 \cdot n_i - n_{sa} - j_s - j^{sa} - s - 2 \cdot lk + 2)!}{(2 \cdot n_i - n_{sa} - j^{sa} - n - 2 \cdot lk - j_{sa}^s + 2)! \cdot (n-s)!}$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 3 \cdot lk_1 - 2 \cdot lk_2 + 3)!}{(3 \cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - n - 3 \cdot lk_1 - 2 \cdot lk_2 - j_{sa}^s + 3)! \cdot (n-s)!}$$

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$$\frac{(2 \cdot n_i + j_s - n_{sa} - j^{sa} - s - 2 \cdot k)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j^{sa} - n - 2 \cdot k - j_{sa}^s)! \cdot (n-s)!}$$

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$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j_s - j^{sa} - s - 2 \cdot k_2)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j^{sa} - n - 2 \cdot k_2 - j_{sa}^s)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

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$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot k_1 - n_{sa} - j_s - j^{sa} - s - 2 \cdot k)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot k_1 - n_{sa} - j^{sa} - n - 2 \cdot k - j_{sa}^s)! \cdot (n-s)!}$$

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$$\frac{(n_i + n_{ik} + j_{ik} - n_{sa} - j^{sa} - s - 2 \cdot lk_2 - lk_1)!}{(n_i + n_{ik} + j_s + j_{ik} - n_{sa} - j^{sa} - n - 2 \cdot lk_2 - lk_1 - j_{sa}^s)! \cdot (n-s)!}$$

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$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j_{ik} - n - j_{sa}^s + 1)! \cdot (n + j_{sa} - s - j_{ik} - 1)!}$$

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$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_{sa} - j_s - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} - n_{sa} - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 1)!}{(n_i + n_{ik} + j_s - n_{sa} - \mathbf{n} - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$S_0^{\text{iss}} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} + \mathbb{k}_1 - n_{sa} - s - 2 \cdot \mathbb{k} - 1)!}{(n_i + n_{ik} + j_s + \mathbb{k}_1 - n_{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\left( \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \right)_{j_i}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$S_0^{\text{iss}} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\mathbf{n}+\mathbb{k})} \sum_{(n_{ik}=n_i-j_{ik}+1)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(n_i+j_s-j_i-\mathbb{k}-j_{sa}^s)!}{(n_i-\mathbf{n}-\mathbb{k})! \cdot (\mathbf{n}+j_s-j_i-j_{sa}^s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_i + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_0^{\text{iss}} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\ \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\ \frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(n_i + j_{ik} - j_i - \mathbb{k} - j_{sa}^{ik})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} - j_i - j_{sa}^{ik})!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_i + j_s - j_{ik} - \mathbb{k} - j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s - j_{ik} - j_{sa}^s - 1)!}$$

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$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k} - 2 \cdot j_{sa}^s + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k} + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

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$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_i - n - \mathbb{k})! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

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$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{(\cdot)}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

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$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{(\cdot)}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i - \mathbb{k} - j_{sa}^{ik} - 1)!}{(n_i - n - \mathbb{k})! \cdot (n - j_{sa}^{ik} - 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

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$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{(\cdot)}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i + j_{sa}^{ik} - 2 \cdot s - \mathbb{k} + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_{sa}^{ik} - 2 \cdot s + 1)!}$$

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$$\frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n-s)!}$$

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$$S_0^{\text{iss}} = \frac{(D-s)!}{(D-n)!} \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{(\cdot)}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

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

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

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$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

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$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{(\cdot)}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\left( \frac{(n_i - s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n - s)!} \right)_{j_i}$$

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$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i - s - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n - s)!}$$

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$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k} - 2 \cdot j_{sa}^s + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

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$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k}_1 - \mathbb{k}_2 - 2 \cdot j_{sa}^s + 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - k_1 - k_2 + 1)!}{(n_i - n - k_1 - k_2)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

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$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^{ik} - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n - j_{sa}^{ik} - 1)!}$$

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$$\frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s)!}{(n_{ik} + j_{ik} + k_1 - n - k - j_{sa}^s)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$D \geq n < n \wedge k = 0 \wedge s = s \vee$

$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$

$$S_0^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - 2 \cdot k_1 - k_2 + 2)!}{(2 \cdot n_i - n_{ik} - j_{ik} - n - 2 \cdot k_1 - k_2 - j_{sa}^s + 2)! \cdot (n - s)!}$$

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$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

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$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_{ik} + j_i - j_s - s - k_2 - 1)!}{(n_{ik} + j_i - n - k_2 - j_{sa}^s - 1)! \cdot (n - s)!}$$

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$$\sum_{\binom{n}{(n_i=n+\mathbb{k})}} \sum_{\binom{(\ )}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_{ik} + j_i + \mathbb{k}_1 - j_s - s - \mathbb{k} - 1)!}{(n_{ik} + j_i + \mathbb{k}_1 - n - \mathbb{k} - j_{sa}^s - 1)! \cdot (n-s)!}$$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_i - s - 2 \cdot k_1 - k_2 + 3)!}{(2 \cdot n_i - n_{ik} - j_i - n - 2 \cdot k_1 - k_2 - j_{sa}^s + 3)! \cdot (n-s)!}$$

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$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{(\ )}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$S_0^{\text{ISS}} = \frac{(D-s)!}{(D-n)!} \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{(\ )}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_s - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

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$$S_0^{\text{iss}} = \frac{(D-s)!}{(D-n)!} \cdot \frac{l-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-n-j_{sa}^s)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \vee$$

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$$\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_s-j_{sa}^s)!}{(n_s+j_i-n-j_{sa}^s)! \cdot (n-j_i)!}$$

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$$\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot k_1 - 2 \cdot k_2 + 2)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s + 2)! \cdot (n-s)!}$$

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$$\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot k + 2)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot k - j_{sa}^s + 2)! \cdot (n-s)!}$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{tk} - j_i - s - 3 \cdot k_1 - 2 \cdot k_2 + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s + 3)! \cdot (n-s)!}$$

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$$\frac{(2 \cdot n_i + j_s - n_s - j_i - s - 2 \cdot k)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_i - n - 2 \cdot k - j_{sa}^s)! \cdot (n-s)!}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot k - k_1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot k - k_1 - j_{sa}^s)! \cdot (n-s)!}$$

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$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot k_1 - n_s - j_s - j_i - s - 2 \cdot k)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot k_1 - n_s - j_i - n - 2 \cdot k - j_{sa}^s)! \cdot (n-s)!}$$

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$$\frac{(n_i + n_{ik} + j_{ik} - n_s - j_i - s - 2 \cdot k_2 - k_1)!}{(n_i + n_{ik} + j_s + j_{ik} - n_s - j_i - n - 2 \cdot k_2 - k_1 - j_{sa}^s)! \cdot (n-s)!}$$

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$$\frac{(n_i + n_{ik} + j_{ik} + k_1 - n_s - j_i - s - 2 \cdot k)!}{(n_i + n_{ik} + j_s + j_{ik} + k_1 - n_s - j_i - n - 2 \cdot k - j_{sa}^s)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_s + j_{ik} - j_s - s + 1)!}{(n_s + j_{ik} - n - j_{sa}^s + 1)! \cdot (n-s)!}$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_{ik} - n - j_{sa}^s + 1)! \cdot (n - j_{ik} - 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(2 \cdot n_i - n_s - j_s - j_{ik} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 1)!}{(2 \cdot n_i - n_s - j_{ik} - n - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s + 1)! \cdot (n-s)!}$$

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$$\frac{(2 \cdot n_i - n_s - j_s - j_{ik} - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_i - n_s - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 1)! \cdot (\mathbf{n} - s)!}$$

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$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_i - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 4)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_i - \mathbf{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s + 4)! \cdot (\mathbf{n} - s)!}$$

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$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_{ik} - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 2)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_{ik} - \mathbf{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_i - s - 2 \cdot k - k_1 + 4)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_i - n - 2 \cdot k - k_1 - j_{sa}^s + 4)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_{ik} - s - 2 \cdot k - k_1 + 2)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_{ik} - n - 2 \cdot k - k_1 - j_{sa}^s + 2)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot k_1 - 2 \cdot k_2 - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{(\ )}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{(\ )}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$



$$\frac{\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 3 \cdot k_1 - 2 \cdot k_2 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 2 \cdot k - k_1 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 2 \cdot k - k_1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

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$$\frac{\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot k - k_1 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 2 \cdot k - k_1 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{t-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot \mathbb{k}_2 - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_s - \mathbf{n} - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{t-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - j_s - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{t-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} - n_s - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 1)!}{(n_i + n_{ik} + j_s - n_s - \mathbf{n} - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{i-I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_i+n_{ik}+\mathbb{k}_1-n_s-s-2 \cdot \mathbb{k}-1)!}{(n_i+n_{ik}+j_s+\mathbb{k}_1-n_s-n-2 \cdot \mathbb{k}-j_{sa}^s-1)! \cdot (n-s)!}}$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z > 1 \Rightarrow$$

$$S_0^{iss} = \prod_{z=3}^s \sum_{((j_i)_1=2)}^{(\ )} \sum_{(j_{ik})_{z-1}=z-1} \sum_{((j_i)_{z-1}=z \vee z=s \Rightarrow s)}^{(\ )} \sum_{n_i=n+\mathbb{k}}^{n-1} \sum_{((n_{ik})_1=n_i-(j_i)_1-\sum_{i=1} \mathbb{k}_i+1)}^{(\ )} \sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2} \mathbb{k}_i} \sum_{((n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1} \mathbb{k}_i)}^{(\ )} \frac{(D-s)!}{(D-s-(j_i)_1+2)!} \cdot \frac{(D-s-(j_{ik}-j_{sa}^{ik})_{z-1})!}{(D-s-(j_i)_{z-1}+(j_{ik})_{z-1}-(j_{ik}-j_{sa}^{ik})_{z-1}+1)!} \cdot \frac{(D-(j_i)_{z=s})!}{(D-n)!} \cdot \frac{(n_i-(n_{ik})_1-1)!}{((j_i)_1-2)! \cdot (n_i-(n_{ik})_1-(j_i)_1+1)!}$$

$$\frac{((n_{ik})_{z-1} - (n_s)_{z-1} - 1)!}{((j_i)_{z-1} - (j_{ik})_{z-1} - 1)! \cdot ((n_{ik})_{z-1} + (j_{ik})_{z-1} - (n_s)_{z-1} - (j_i)_{z-1})!} \cdot \frac{((n_s)_{z=s} - 1)!}{((n_s)_{z=s} + (j_i)_{z=s} - \mathbf{n} - 1)! \cdot (\mathbf{n} - (j_i)_{z=s})!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z > 1 \Rightarrow$$

$$S_0^{\text{iss}} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{1}{(\mathbf{n}-s)!} \cdot \prod_{z=3}^s \sum_{(j_i)_1=2}^{(\cdot)} \sum_{(j_{ik})_{z-1}=z-1} \sum_{(j_i)_{z-1}=z \vee z=s \Rightarrow s}^{(\cdot)} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{n-1} \sum_{(n_{ik})_1=n_i-(j_i)_1-\sum_{i=1}^{\mathbb{k}_i} \mathbb{k}_i+1}^{(\cdot)} \sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}^{\mathbb{k}_i} \mathbb{k}_i} \sum_{(n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}^{\mathbb{k}_i} \mathbb{k}_i}^{(\cdot)} \frac{(\mathbf{n}-s)!}{(\mathbf{n}-s-(j_i)_1+2)!} \cdot \frac{(\mathbf{n}-s-(j_{ik}-j_{sa}^{ik})_{z-1})!}{(\mathbf{n}-s-(j_i)_{z-1}+(j_{ik})_{z-1}-(j_{ik}-j_{sa}^{ik})_{z-1}+1)!} \cdot \frac{(n-(j_i)_{z=s})!}{(\mathbf{n}-\mathbf{n})!} \cdot \frac{(n_i-(n_{ik})_1-1)!}{((j_i)_1-2)! \cdot (n_i-(n_{ik})_1-(j_i)_1+1)!} \cdot \frac{((n_{ik})_{z-1} - (n_s)_{z-1} - 1)!}{((j_i)_{z-1} - (j_{ik})_{z-1} - 1)! \cdot ((n_{ik})_{z-1} + (j_{ik})_{z-1} - (n_s)_{z-1} - (j_i)_{z-1})!} \cdot \frac{((n_s)_{z=s} - 1)!}{((n_s)_{z=s} + (j_i)_{z=s} - \mathbf{n} - 1)! \cdot (\mathbf{n} - (j_i)_{z=s})!}$$

## BAĞIMLI DURUMLA BAŞLAYAN DAĞILIMLARDA BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİ

Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde  $\{1, 2, 3, 4, 5\}$  veya  $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$ , bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlardan, simetrisinin başladığı bağımlı durumla başlayan dağılımlardaki düzgün simetrik olasılıklar; bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik olasılığın üçüncü uyum eşitliğiyle çarpımına eşit olur. Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde, simetrisinin başladığı durumla başlayan dağılımlardaki, düzgün simetrik olasılıklar için;

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s)! \cdot (n-l-s+1)}{l! \cdot (n-s+1)!}$$

bu eşitlikte  $n = n - l$  olacağından,

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s)! \cdot (n-l-s+1)}{l! \cdot (n-l-s)! \cdot (n-l-s+1)}$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-l-s)!} \cdot \frac{(n-s)!}{l!}$$

veya

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-s)!}{l!}$$

veya

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n_i-s+1}$$

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

veya simetri bağımlı durumla başlayıp, bağımsız durumları bulunup bağımlı durumla bittiğinde  $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$ ,

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-s)!}{(l-l)!}$$

veya  $s = s + l$  olacağından,

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-s-l)!}{(l-l)!}$$

veya

$$S_D^{ISS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n_i-s-k+1} \frac{(n-s-k)!}{(n-n-k)! \cdot (n-s)!}$$

veya

$$S_D^{ISS} = \prod_{z=3}^s \sum_{(j_i=2)}^{()} \sum_{(j_{ik})_{z-1}=z-1} \sum_{(j_i)_{z-1}=z \vee z=s \Rightarrow s}^{()} \sum_{n_i=n}^{()} \sum_{(n_{ik})_1=n-(j_i)_1-\sum_{i=1}^k k_i+1}^{()} \sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}^k k_i} \sum_{(n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}^k k_i}^{()} \frac{(D-s)!}{(D-s-(j_i)_1+2)!} \cdot \frac{(D-s-(j_{ik}-j_{sa}^{ik})_{z-1})!}{(D-s-(j_i)_{z-1}+(j_{ik})_{z-1}-(j_{ik}-j_{sa}^{ik})_{z-1}+1)!} \cdot \frac{(D-(j_i)_{z=s})!}{(D-n)!} \cdot \frac{(n-(n_{ik})_1-1)!}{((j_i)_1-2)! \cdot (n-(n_{ik})_1-(j_i)_1+1)!} \cdot \frac{((n_{ik})_{z-1}-(n_s)_{z-1}-1)!}{((j_i)_{z-1}-(j_{ik})_{z-1}-1)! \cdot ((n_{ik})_{z-1}+(j_{ik})_{z-1}-(n_s)_{z-1}-(j_i)_{z-1})!} \cdot \frac{((n_s)_{z=s}-1)!}{((n_s)_{z=s}+(j_i)_{z=s}-n-1)! \cdot (n-(j_i)_{z=s})!}$$

eşitlikleri elde edilir. Bu eşitliklere bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli olasılık dağılımlarında, simetri bağımlı durumla başlayıp bağımlı durumla bittiğinde; simetrinin ilk durumuyla başlayan dağılımlarda, düzgün simetrik durumların bulunduğu dağılımların sayısına **bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik olasılık** denir. Bağımlı ve bir

bağımsız olasılıklı büyük farklı dizimli bağımlı durumlu bağımlı ilk düzgün simetrik olasılık  $S_D^{iss}$  ile gösterilecektir.

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

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-s)!}{l!}$$

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

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n_i-s+1} \frac{(n-s)!}{(n-n)! \cdot (n-s)!}$$

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

$$S_D^{iss} = \frac{(D+I-s)!}{(D+l-n)!} \cdot \frac{1}{(n+I-l-s)!} \cdot \frac{(n-s)!}{(l-I)!}$$

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

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-s-I)!}{(l-I)!}$$

$$D \geq n < n \wedge I = \mathbb{k} \wedge \mathbb{k}_z: z \geq 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n_i-s-\mathbb{k}+1} \frac{(n_i-s-\mathbb{k})!}{(n_i-n-\mathbb{k})! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=n)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_i-s-\mathbb{k})!}{(n_i-n-\mathbb{k})! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=n)}^{()} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=n)}^{()} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_i - s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=n)}^{()} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{(n_i=n)}^{()} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_i - s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{(n_i=n)}^{()} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(n_i=n)}^{()} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1}$$



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

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{\text{iss}} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{\binom{()}{n_i=n}} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{\text{iss}} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=n} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{\text{iss}} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=n} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{\text{iss}} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=n} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{ik} + j_{ik} - s - \mathbb{k} - 1)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - 1)! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_D^{\text{iss}} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=n} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=n} \sum_{(n_{ik}=n_i-j_{ik}+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = k > 0 \wedge s = s + k \wedge k_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=n} \sum_{(n_{ik}=n_i-j_{ik}+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k} \frac{(n_{ik}+j_{ik}-s-k-1)!}{(n_{ik}+j_{ik}-n-k-1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \vee I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=n)} \sum_{(n_{ik}=n_i-j_{ik}+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k} \left( \frac{(n_i-s-k)!}{(n_i-n-k)! \cdot (n-s)!} \right)_{j_{sa}}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \vee I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=n)} \sum_{(n_{ik}=n_i-j_{ik}+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k} \frac{(n_i-s-k)!}{(n_i-n-k)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \vee I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\frac{\sum_{(n_i=n)}^{()} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{()} \frac{(n_i + j_s + j_{sa} - j^{sa} - s - \mathbb{k} - j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa} - j^{sa} - s - j_{sa}^s)!}}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iSS} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \frac{\sum_{(n_i=n)}^{()} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{()} \frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - \mathbb{k} - 2 \cdot j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^s)!}}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iSS} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\frac{\sum_{(n_i=n)}^{()} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{()} \frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j^{sa} + j_{sa}^s - j_s - j_{sa} - s)!}}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iSS} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\frac{\sum_{(n_i=n)}^{()} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{()} \frac{(n_i + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s)!}}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{\binom{()}{n_i=n}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_i - n - \mathbb{k})! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{\binom{()}{n_i=n}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{\binom{()}{n_i=n}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{\binom{()}{n_i=n}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - \mathbb{k} - j_{sa}^{ik})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik})!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{\binom{()}{n_i=n}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{\binom{()}{n_i=n}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\left( \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \right)_{j^{sa}}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{\binom{()}{n_i=n}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

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

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_D^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{\binom{()}{(n_i=n)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_s + j_{sa} - j_{ik} - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_i - n - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa} - j_{ik} - s - j_{sa}^s - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_D^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{\binom{()}{(n_i=n)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \mathbb{k} - 2 \cdot j_{sa}^s + 1)!}{(n_i - n - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\left( \frac{(n_i - s - k)!}{(n_i - n - k)! \cdot (n - s)!} \right)_{j^{sa}}$$

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$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j^{sa} - s - k + 3)!}{(2 \cdot n_i - n_{ik} - j^{sa} - n - k - j_{sa}^s + 3)! \cdot (n-s)!}$$

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$$\sum_{(n_i=n)}^{()} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(2 \cdot n_i - n_{ik} - j_s - j^{sa} - s - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 + 3)!}{(2 \cdot n_i - n_{ik} - j^{sa} - n - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s + 3)! \cdot (n-s)!}$$

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$$S_D^{iSS} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_{sa} - j^{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

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$$\sum_{\binom{()}{(n_i=n)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j_{ik} - \mathbf{n} - j_{sa}^s + 1)! \cdot (\mathbf{n} + j_{sa} - s - j_{ik} - 1)!}$$

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$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j^{sa} - n - j_{sa}^s)! \cdot (n + j_{sa} - s - j_{sa}^s)!}$$

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$$\frac{}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s)! \cdot (n-s)!}$$

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$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=n)}^{()} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} (n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j_{ik} - \mathbf{n} - j_{sa}^s + 1)! \cdot (\mathbf{n} + j_{sa} - s - j_{ik} - 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j^{sa} - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 4)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \mathbf{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s + 4)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_i + n_{ik} - n_{sa} - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 1)!}{(n_i + n_{ik} + j_s - n_{sa} - n - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (n-s)!}$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=n)}^{()} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \left( \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \right)_{j_i}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \mathbb{k}_1 - \mathbb{k}_2 - 2 \cdot j_s^s)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_s^s)!}$$

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

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

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$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

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$$\left( \frac{(n_i - s - k)!}{(n_i - n - k)! \cdot (n - s)!} \right)_{j_i}$$

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$$\frac{(n_i-s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)! \cdot (n-s)!}$$

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$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k} - 2 \cdot j_{sa}^s + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=n)}^{()} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}^{()} (n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k}_1 - \mathbb{k}_2 - 2 \cdot j_{sa}^s + 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\sum_{\binom{(\cdot)}{(n_i=n)}} \sum_{\binom{(\cdot)}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k} + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

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$$\sum_{\binom{(\cdot)}{(n_i=n)}} \sum_{\binom{(\cdot)}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + j_s + j_{sa}^{ik} - j_i - s - \mathbb{k} - j_{sa}^s + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + j_s + j_{sa}^{ik} - j_i - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s + 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

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$$S_D^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{()}{n_i=n}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i - \mathbb{k} - j_{sa}^{ik} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (n - j_{sa}^{ik} - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$S_D^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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$$\frac{(n_i - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^{ik} - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n - j_{sa}^{ik} - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$S_D^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{()} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_i + j_{sa}^{ik} - 2 \cdot s - \mathbb{k} + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_{sa}^{ik} - 2 \cdot s + 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=n)}^{()} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_i + j_{sa}^{ik} - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j_{sa}^{ik} - 2 \cdot s + 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$



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

$$D \geq n < n \wedge k = 0 \wedge s = s \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$S_D^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{()} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i + j_s - s - k - j_{sa}^s)!}{(n_i + j_s - n - k - j_{sa}^s)! \cdot (n - s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

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$$S_D^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{()} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i + j_s - s - k_1 - k_2 - j_{sa}^s)!}{(n_i + j_s - n - k_1 - k_2 - j_{sa}^s)! \cdot (n - s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

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$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{()}{(n_i=n)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_s - s - \mathbb{k} - j_{sa}^s)!}{(n_i + j_s - n - \mathbb{k} - j_{sa}^s)! \cdot (n-s)!}$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot k + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot k - j_{sa}^s + 3)! \cdot (n-s)!}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} - \mathbb{k}_1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s)! \cdot (n-s)!}$$

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$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_{ik} - n - j_{sa}^s + 1)! \cdot (n - j_{ik} - 1)!}$$

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$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

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$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot \mathbb{k}_2 - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_s - n - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n-s)!}$$

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$$\frac{(n_i+j_s+j_{sa}-j^{sa}-s-\mathbb{k}-j_{sa}^s)!}{(n_i-\mathbf{n}-\mathbb{k})! \cdot (n+j_s+j_{sa}-j^{sa}-s-j_{sa}^s)!}$$

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$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}}{(n_i - n - \mathbb{k})! \cdot (n + j_{sa} - s - \mathbb{k} - j_{sa}^{ik} - 1)!}$$

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$$\frac{(n_i + j_{sa}^{ik} - j_{sa} - s - k + 1)!}{(n_i - n - k)! \cdot (n + j_{sa}^{ik} - j_{sa} - s + 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

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$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\left( \frac{(n_i - s - k)!}{(n_i - n - k)! \cdot (n - s)!} \right)_{j_{sa}}$$

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$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2}$$

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$$S_D^{iSS} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{n-i-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^{ik})!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik})!}$$

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

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

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$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-i-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!}$$

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$$\frac{(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\left( \frac{(n_i - s - k)!}{(n_i - n - k)! \cdot (n - s)!} \right)_{j^{sa}}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \frac{n - i - s + 1}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik} (j^{sa}=j_{ik}+1)} \sum_{\substack{(n) \\ (n_i=n+k)}} \sum_{\substack{(\cdot) \\ (n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \left( \frac{(n_i - s - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n - s)!} \right)_{j^{sa}}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n_i-s-k_1-k_2)!}{(n_i-n-k_1-k_2)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \mathbb{k} - 2 \cdot j_{sa}^s + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^s + 1)!}$$

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$$\frac{(n_i + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1)!}$$

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$$\frac{(n_i + j_s + j_{sa}^{ik} - j^{sa} - s - \mathbb{k} - j_{sa}^s + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_s + j_{sa}^{ik} - j^{sa} - s - j_{sa}^s + 1)!}$$

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$$\frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - k - 1)!}{(n_i - n - k)! \cdot (n + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1)!}$$

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$D \geq n < n \wedge k = 0 \wedge s = s \vee$

$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$

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$$\sum_{(n_i=n+lk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-lk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-lk_2}$$

$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - 2 \cdot lk_1 - lk_2 + 2)!}{(2 \cdot n_i - n_{ik} - j_{ik} - n - 2 \cdot lk_1 - lk_2 - j_{sa}^s + 2)! \cdot (n-s)!}$$

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$$D \geq n < n \wedge lk = 0 \wedge s = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k}_2 - j_{sa}^s)!}{(n_{ik} + j^{sa} - n - \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j^{sa} + 1)!}$$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{sa} - s - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 + 3)!}{(2 \cdot n_i - n_{ik} - j_{sa} - \mathbf{n} - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s + 3)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j_{ik} - n - j_{sa}^s + 1)! \cdot (n + j_{sa} - s - j_{ik} - 1)!}$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j^{sa} - s - 2 \cdot \mathbb{k} + 4)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 4)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(n_i + n_{ik} + j_{ik} - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1)!}{(n_i + n_{ik} + j_s + j_{ik} - n_{sa} - j^{sa} - n - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s)! \cdot (n-s)!}$$

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

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-i-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} + j_{ik} + \mathbb{k}_1 - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k})!}{(n_i + n_{ik} + j_s + j_{ik} + \mathbb{k}_1 - n_{sa} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-i-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_{sa} + j_{ik} - j_s - s + 1)!}{(n_{sa} + j_{ik} - n - j_{sa}^s + 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j_{ik} - n - j_{sa}^s + 1)! \cdot (n + j_{sa} - s - j_{ik} - 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j_{ik} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 1)!}{(2 \cdot n_i - n_{sa} - j_{ik} - n - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s + 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(2 \cdot n_i + j_s - n_{sa} - j_{ik} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

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$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(2 \cdot n_i + j_s - n_{sa} - j_{ik} - s - 2 \cdot k - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j_{ik} - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n-s)!}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - s - 3 \cdot k_1 - 2 \cdot k_2 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - n - 3 \cdot k_1 - 2 \cdot k_2)! \cdot (n-s)!}$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} - n_{sa} - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 1)!}{(n_i + n_{ik} + j_s - n_{sa} - n - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (n-s)!}$$



$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{n-l-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} + \mathbb{k}_1 - n_{sa} - s - 2 \cdot \mathbb{k} - 1)!}{(n_i + n_{ik} + j_s + \mathbb{k}_1 - n_{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{n-l-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\left( \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \right)_{j_i}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

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

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$$D \geq n < n \wedge k = 0 \wedge s = s \vee l = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 1 \Rightarrow$$

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

$$D \geq n < n \wedge k = 0 \wedge s = s \vee l = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 1 \Rightarrow$$

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$$D \geq n < n \wedge k = 0 \wedge s = s \vee l = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 1 \Rightarrow$$

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$$\frac{(n_i + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_i - n - \mathbb{k})! \cdot (n + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge s = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik})!}$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(n_i + j_{ik} - j_i - \mathbb{k} - j_{sa}^{ik})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} - j_i - j_{sa}^{ik})!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(n_i + j_s - j_{ik} - \mathbb{k} - j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s - j_{ik} - j_{sa}^s - 1)!}$$

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$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k} - 2 \cdot j_{sa}^s + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\sum_{\binom{n}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{(\ )}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

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$$\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{(\cdot)}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - k - 1)!}{(n_i - n - k)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

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$$\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{(\cdot)}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i - k - j_{sa}^{ik} - 1)!}{(n_i - n - k)! \cdot (n - j_{sa}^{ik} - 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{(\cdot)}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i + j_{sa}^{ik} - 2 \cdot s - k + 1)!}{(n_i - n - k)! \cdot (n + j_{sa}^{ik} - 2 \cdot s + 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{\binom{n}{(n_i=n+k)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \left( \frac{(n_i-s-k)!}{(n_i-n-k)! \cdot (n-s)!} \right)_{j_i}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

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$$D \geq n < n \wedge k = 0 \wedge s = s \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{\binom{n}{(n_i=n+k)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i-s-k)!}{(n_i-n-k)! \cdot (n-s)!}$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i-s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)! \cdot (\mathbf{n}-s)!}$$

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

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$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik})!}$$

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$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - k)!}{(n_i - n - k)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

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$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$

$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$

$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$

$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\left( \frac{(n_i - s - k)!}{(n_i - n - k)! \cdot (n - s)!} \right)_{j_i}$$

$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

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$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{(\cdot)}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\left( \frac{(n_i-s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)! \cdot (n-s)!} \right)_{j_i}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

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

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$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i - s - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n - s)!}$$

$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$

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$$S_D^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \frac{n - i - s + 1}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i + j_s - j_{ik} - k - j_{sa}^s - 1)!}{(n_i - n - k)! \cdot (n + j_s - j_{ik} - j_{sa}^s - 1)!}$$

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$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k} - 2 \cdot j_{sa}^s + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

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$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k}_1 - \mathbb{k}_2 - 2 \cdot j_{sa}^s + 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k} + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k} + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - k_1 - k_2 + 1)!}{(n_i - n - k_1 - k_2)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

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$$\frac{(n_i + j_s + j_{sa}^{ik} - j_i - s - k - j_{sa}^s + 1)!}{(n_i - n - k)! \cdot (n + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^s + 1)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

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$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - k - 1)!}{(n_i - n - k)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

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$$\frac{(n_i - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^{ik} - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n - j_{sa}^{ik} - 1)!}$$

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$$S_D^{\text{iss}} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_{sa}^{ik} - 2 \cdot s - \mathbb{k} + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_{sa}^{ik} - 2 \cdot s + 1)!}$$

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

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$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

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$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_s-j_{sa}^s)!}{(n_s+j_i-n-j_{sa}^s)! \cdot (n-j_i)!}$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_{ik} - s - 2 \cdot k - k_1 + 2)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_{ik} - n - 2 \cdot k - k_1 - j_{sa}^s + 2)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_D^{\text{iss}} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+k}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot k_1 - 2 \cdot k_2 - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - n - 2 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 3 \cdot k_1 - 2 \cdot k_2 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_D^{ISS} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 2 \cdot k - k_1 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 2 \cdot k - k_1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_D^{ISS} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\cdot)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot k - k_1 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 2 \cdot k - k_1 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-t-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot \mathbb{k}_2 - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_s - \mathbf{n} - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-t-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - j_s - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-t-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} - n_s - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 1)!}{(n_i + n_{ik} + j_s - n_s - \mathbf{n} - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$



$$D \geq n < n \wedge k = 0 \wedge s = s \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k > 0 \wedge s = s + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = k \wedge s > 1 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{n-l-s+1}{n-s-l+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + n_{ik} + k_1 - n_s - s - 2 \cdot k - 1)!}{(n_i + n_{ik} + j_s + k_1 - n_s - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = k > 0 \wedge s = s + k \wedge k_z: z > 1 \Rightarrow$$

$$S_D^{iss} = \prod_{z=3}^s \sum_{(j_i)_{z-1}=2}^{(\ )} \sum_{(j_{ik})_{z-1}=z-1} \sum_{(j_i)_{z-1}=z \vee z=s \Rightarrow s}^{(\ )}$$

$$\sum_{n_i=n} \sum_{(n_{ik})_{z-1}=n-(j_i)_{z-1}-\sum_{i=1}^{z-1} k_i+1}^{(\ )}$$

$$\sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}^{z-1} k_i}$$

$$\sum_{(n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}^{z-1} k_i}^{(\ )}$$

$$\frac{(D-s)!}{(D-s-(j_i)_1+2)!} \cdot \frac{(D-s-(j_{ik}-j_{sa}^{ik})_{z-1})!}{(D-s-(j_i)_{z-1}+(j_{ik})_{z-1}-(j_{ik}-j_{sa}^{ik})_{z-1}+1)!}$$

$$\frac{(D-(j_i)_{z=s})!}{(D-n)!}$$

$$\frac{(n-(n_{ik})_1-1)!}{((j_i)_1-2)! \cdot (n-(n_{ik})_1-(j_i)_1+1)!}$$

$$\frac{((n_{ik})_{z-1} - (n_s)_{z-1} - 1)!}{((j_i)_{z-1} - (j_{ik})_{z-1} - 1)! \cdot ((n_{ik})_{z-1} + (j_{ik})_{z-1} - (n_s)_{z-1} - (j_i)_{z-1})!} \cdot \frac{((n_s)_{z=s} - 1)!}{((n_s)_{z=s} + (j_i)_{z=s} - \mathbf{n} - 1)! \cdot (\mathbf{n} - (j_i)_{z=s})!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z > 1 \Rightarrow$$

$$S_D^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{1}{(\mathbf{n}-s)!} \cdot \prod_{z=3}^s \sum_{(j_i)_{z-1}=2}^{(\cdot)} \sum_{(j_{ik})_{z-1}=z-1} \sum_{(j_i)_{z-1}=z \vee z=s \Rightarrow s}^{(\cdot)} \sum_{n_i=\mathbf{n}}^{(\cdot)} \sum_{(n_{ik})_1=\mathbf{n}-(j_i)_1-\sum_{i=1}^{\mathbb{k}_i+1}} \sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}^{\mathbb{k}_i} \mathbb{k}_i} \sum_{(n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}^{\mathbb{k}_i} \mathbb{k}_i} \frac{(n-s)!}{(n-s-(j_i)_1+2)!} \cdot \frac{(\mathbf{n}-s-(j_{ik}-j_{sa}^{ik})_{z-1})!}{(\mathbf{n}-s-(j_i)_{z-1}+(j_{ik})_{z-1}-(j_{ik}-j_{sa}^{ik})_{z-1}+1)!} \cdot \frac{(n-(j_i)_{z=s})!}{(\mathbf{n}-\mathbf{n})!} \cdot \frac{(n-(n_{ik})_1-1)!}{((j_i)_1-2)! \cdot (n-(n_{ik})_1-(j_i)_1+1)!} \cdot \frac{((n_{ik})_{z-1} - (n_s)_{z-1} - 1)!}{((j_i)_{z-1} - (j_{ik})_{z-1} - 1)! \cdot ((n_{ik})_{z-1} + (j_{ik})_{z-1} - (n_s)_{z-1} - (j_i)_{z-1})!} \cdot \frac{((n_s)_{z=s} - 1)!}{((n_s)_{z=s} + (j_i)_{z=s} - \mathbf{n} - 1)! \cdot (\mathbf{n} - (j_i)_{z=s})!}$$

## BAĞIMSIZ-BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİ

Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde  $\{0, 0, 0, 1, 2, 3, 4, 5\}$  veya  $\{0, 0, 0, 1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$ , bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlardan, simetrisinin ilk bağımlı durumuyla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu, simetrisinin ilk bağımlı durumu bulunan dağılımlardaki düzgün simetrik olasılıklar; bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik olasılığın üçüncü uyum eşitliğiyle çarpımına eşit olur. Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde ve simetrisinin bağımlı durumları arasında bağımsız durum bulunmadığında  $\{0, 0, 0, 1, 2, 3, 4, 5\}$ , simetrisinin ilk bağımlı durumuyla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin ilk bağımlı durumu olan dağılımlardaki, düzgün simetrik olasılıklar için,

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-s+1)!}{(l-l)! \cdot (n+l-l-s+1)!}$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s+1)!}{(l-l)! \cdot (n+l-l-s+1)!}$$

veya  $s = s + l$  olacağından,

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-s-l+1)!}{(l-l)! \cdot (n-s+1)!}$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s-l+1)!}{(l-l)! \cdot (n-s+1)!}$$

veya bu eşitlikte  $n$  yerine  $n = n - l$  yazıldığında,

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-s-l+1)!}{(l-l)! \cdot (n-l-s+1)!}$$

$${}_0S^{iss} = \frac{(D-s)!}{(D+l-n)!} \cdot \frac{1}{(n-l-s)!} \cdot \frac{(n-s-l+1)!}{(l-l)! \cdot (n-l-s+1)!}$$

$${}_0S^{iss} = \frac{(D-s)!}{(D+l-n)!} \cdot \frac{(n-s-l+1)!}{(l-l)! \cdot (n-l-s+1)!}$$

$$l = \mathbb{1}$$

veya

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)}^{n-\mathbb{1}} \sum_{n_s=n_i-j_i+1}$$

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

eşitlikleri elde edilir. Ayrıca simetri bağımsız durumla başlayıp bağımlı durumlar arasında bağımsız durumlar bulunup bağımlı durumla bittiğinde  $\{0, 0, 0, 1, 2, \mathbf{0}, \mathbf{0}, \mathbf{0}, 3, 4, \mathbf{0}, \mathbf{0}, 5\}$  ise,

$${}_0S^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \frac{1}{(n - s)!} \cdot \frac{(n - s + 1)!}{(l - l)! \cdot (n + l - s + 1)}$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \frac{(n - s + 1)!}{(l - l)! \cdot (n + l - s + 1)!}$$

veya bu eşitlikte  $n$  yerine  $n = n - l$  yazıldığında,

$${}_0S^{iss} = \frac{(D + l - s)!}{(D + l - n)!} \cdot \frac{1}{(n + l - l - s)!} \cdot \frac{(n - s + 1)!}{(l - l)! \cdot (n + l - l - s + 1)}$$

$${}_0S^{iss} = \frac{(D + l - s)!}{(D + l - n)!} \cdot \frac{(n - s + 1)!}{(l - l)! \cdot (n + l - l - s + 1)!}$$

veya  $s = s + l$  olacağından,

$${}_0S^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \frac{1}{(n - s)!} \cdot \frac{(n - s - l + 1)!}{(l - l)! \cdot (n - s + 1)}$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \frac{(n - s - l + 1)!}{(l - l)! \cdot (n - s + 1)!}$$

veya bu eşitlikte  $n$  yerine  $n = n - l$  yazıldığında,

$${}_0S^{iss} = \frac{(D - s)!}{(D + l - n)!} \cdot \frac{1}{(n - l - s)!} \cdot \frac{(n - s - l + 1)!}{(l - l)! \cdot (n - s - l + 1)}$$

$${}_0S^{iss} = \frac{(D - s)!}{(D + l - n)!} \cdot \frac{(n - s - l + 1)!}{(l - l)! \cdot (n - s - l + 1)!}$$

$$l = \mathbb{1} + \mathbb{k}$$

veya simetri bağımsız durumla başlayıp, bağımlı durumlar arasında bağımsız durumlar bulunup, bağımlı durumla bittiğinde  $\{0, 0, 0, 1, 2, \mathbf{0}, \mathbf{0}, \mathbf{0}, 3, 4, \mathbf{0}, \mathbf{0}, 5\}$ ,

$${}_0S^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n+\mathbb{k})}^{n-l} \sum_{n_s=n_i-j_i-\mathbb{k}+1}$$

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

veya simetri bağımsız durumla başlayıp bağımlı durumlar arasında bağımsız durumlar bulunup bağımlı durumla bittiğinde  $\{0, 0, 0, 1, 2, \mathbf{0}, \mathbf{0}, \mathbf{0}, 3, 4, \mathbf{0}, \mathbf{0}, 5\}$ , aynı şartlı ilk simetrik olasılık eşitliğinde düzenleme yapıldığında;

$$\begin{aligned}
{}_0S^{ISS} &= \prod_{z=3}^s \sum_{\binom{()}{(j_i)_1=2}} \sum_{(j_{ik})_{z-1}=z-1} \sum_{\binom{()}{(j_i)_{z-1}=z \forall z=s \Rightarrow s}} \\
&\quad \sum_{n_i=n+lk}^{n-l} \sum_{\binom{()}{(n_{ik})_1=n_i-(j_i)_1-\sum_{i=1}^{lk} l_k+1}} \\
&\quad \sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}^{lk} l_k} \\
&\quad \sum_{\binom{()}{(n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}^{lk} l_k}} \\
&\quad \frac{(D-s)!}{(D-s-(j_i)_1+2)!} \cdot \frac{\binom{()}{(D-s-(j_{ik}-j_{sa}^{lk})_{z-1})!}}{\binom{()}{(D-s-(j_i)_{z-1}+(j_{ik})_{z-1}-(j_{ik}-j_{sa}^{lk})_{z-1}+1)!}} \cdot \frac{(D-(j_i)_{z=s})!}{(D-n)!} \\
&\quad \frac{(n_i-(n_{ik})_1-1)!}{((j_i)_1-2)! \cdot (n_i-(n_{ik})_1-(j_i)_1+1)!} \\
&\quad \frac{((n_{ik})_{z-1}-(n_s)_{z-1}-1)!}{((j_i)_{z-1}-(j_{ik})_{z-1}-1)! \cdot ((n_{ik})_{z-1}+(j_{ik})_{z-1}-(n_s)_{z-1}-(j_i)_{z-1})!} \\
&\quad \frac{((n_s)_{z=s}-1)!}{((n_s)_{z=s}+(j_i)_{z=s}-n-1)! \cdot (n-(j_i)_{z=s})!}
\end{aligned}$$

eşitlikleri elde edilir. Bu eşitliklere bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlarında, simetri bağımsız durumla başlayıp bağımlı durumla bittiğinde; simetrinin ilk bağımlı durumuyla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin başladığı durum bulunan dağılımlarda, düzgün simetrik durumların bulunduğu dağılımların sayısına **bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik olasılık** denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik olasılık  ${}_0S^{ISS}$  ile gösterilecektir.

Yukarıda verilen  ${}_0S^{ISS} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s-l+1)!}{(l-l)!(n-s+1)!}$  eşitliği (bu eşitliğin  $lk = 0 \vee lk > 0$  geçerli olduğuna dikkat ediniz!) aynı şartlı simetrik olasılık eşitliğiyle ilişkilendirilebilir. Bu ilişkilendirmeye eşitliği yeniden düzenlemeyle başlanabilir.

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s-I+1)!}{(l-I)! \cdot (n-s+1)!}$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-s-I+1)!}{(l-I)! \cdot (n-s+1)}$$

ve  $l = n - n$  olduğundan,

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-s-I+1)!}{(n-n-I)! \cdot (n-s+1)}$$

bu eşitliğin sağındaki ilk iki terim üçüncü uyum eşitliğini verdiğiinden,

$${}_0S^{iss} = U_3 \cdot \frac{(n-s-I+1)!}{(n-n-I)! \cdot (n-s+1)}$$

$${}_0S^{iss} = U_3 \cdot \frac{1}{(n-n-I)!} \cdot \frac{(n-s-I+1)!}{(n-s+1)}$$

ve aynı şartlı ilk simetrik olasılık ise  ${}_0S^{is} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-I)!}{(n-n-I)! \cdot n} \cdot \frac{1}{(s-1)!}$  dir. Bu eşitlikte düzenlendiğinde,

$${}_0S^{is} = U_3 \cdot \frac{1}{(n-n-I)!} \cdot \frac{(n-I)!}{n} \cdot \frac{1}{(s-1)!}$$

$$U_3 \cdot \frac{1}{(n-n-I)!} = {}_0S^{is} \cdot \frac{(s-1)! \cdot n}{(n-I)!}$$

elde edilir. Bu eşitlik yukarıdaki  ${}_0S^{iss} = U_3 \cdot \frac{1}{(n-n-I)!} \cdot \frac{(n-s-I+1)!}{(n-s+1)}$  eşitliğinde yazıldığında,

$${}_0S^{iss} = {}_0S^{is} \cdot \frac{(s-1)! \cdot n}{(n-I)!} \cdot \frac{(n-s-I+1)!}{(n-s+1)}$$

ilişkisi elde edilir.

Simetri bağımsız durumla başlayıp bağımlı durumla bittiğinde, simetrimin ilk bağımlı durumuyla başlayan dağılımlardaki ilk düzgün simetrik olasılık, aynı şartlı simetrik olasılıkla da ilişkilendirilebilir. Bu ilişkilendirmede son elde edilen ilişki kullanılacaktır. Bu ilişkiden yararlanılabilmesi için aynı şartlı ilk simetrik olasılıkla, aynı şartlı simetrik olasılığın ilişkisinden yararlanılabilir. İlk simetrik olasılığın  ${}_0S^{is} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-I)!}{(n-n-I)! \cdot n} \cdot \frac{1}{(s-1)!}$  eşitliği yeniden düzenlendiğinde,

$${}_0S^{is} = U_3 \cdot \frac{1}{(n-n-I)! \cdot (s-1)} \cdot \frac{(n-I)!}{n}$$

ve VDOİHİ cilt 2.2.1’de aynı şartlı simetrik olasılığın (simetrisinin bağımlı durumları arasında bağımsız durum bulunmadığındaki)  ${}_0S = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{n!}{(s+i)!} \cdot \frac{(s+i-l)!}{s! \cdot (l-l)!}$  eşitliği düzenlendiğinde,

$${}_0S = U_3 \cdot \frac{n!}{(s+i)!} \cdot \frac{(s+i-l)!}{s! \cdot (l-l)!}$$

ve  $l = n - n$  olduğundan,

$${}_0S = U_3 \cdot \frac{n!}{(s+i)!} \cdot \frac{(n+s-n-l)!}{s! \cdot (n-n-l)!}$$

$${}_0S = U_3 \cdot \frac{1}{(n-n-l)! \cdot (s-1)!} \cdot \frac{n!}{(s+i)!} \cdot \frac{(n+s-n-l)!}{s}$$

$$U_3 \cdot \frac{1}{(n-n-l)! \cdot (s-1)!} = {}_0S \cdot \frac{(s+i)! \cdot s}{n! \cdot (n+s-n-l)!}$$

eşitliği elde edilir. Yukarıda elde edilen  ${}_0S^{is} = U_3 \cdot \frac{1}{(n-n-l)! \cdot (s-1)!} \cdot \frac{(n-l)!}{n}$  eşitlikte yazıldığına,

$${}_0S^{is} = {}_0S \cdot \frac{(s+i)! \cdot s}{n! \cdot (n+s-n-l)!} \cdot \frac{(n-l)!}{n}$$

be eşitlikte yukarıda aynı şartlı ilk düzgün simetrik olasılık ilişkisinde  ${}_0S^{iss} = {}_0S^{is} \cdot \frac{(s-1)! \cdot n}{(n-l)!} \cdot \frac{(n-s-l+1)!}{(n-s+1)!}$  yazıldığına,

$${}_0S^{iss} = {}_0S \cdot \frac{(s+i)! \cdot s}{n! \cdot (n+s-n-l)!} \cdot \frac{(n-l)!}{n} \cdot \frac{(s-1)! \cdot n}{(n-l)!} \cdot \frac{(n-s-l+1)!}{(n-s+1)!}$$

$${}_0S^{iss} = {}_0S \cdot \frac{(s+i)! \cdot s!}{n! \cdot (n+s-n-l)!} \cdot \frac{(n-s-l+1)!}{(n-s+1)!}$$

ilişkisi elde edilir. Simetri bağımsız durumla başlayıp bağımlı durumla bittiğinde yukarıda elde edilen ilişkilerle birlikte, simetri bağımlı durumla başlayıp bağımlı durumlar arasında bağımsız durumlar bulunup bağımlı durumla bittiğindeki ilk düzgün simetrik olasılığın aynı ilişkileri kurulabilir. Çünkü simetrisinin bu iki farklı durumları için düzgün simetrik olasılık eşitlikleri aynıdır. Dikkat edilmesi gereken eşitliklerdeki  $l$  teriminin simetrisinin hangi bağımsız durumlarını ifade ettiğidir.

$$D \geq n < n \wedge l = l \wedge k = 0 \wedge s = s + l \Rightarrow$$

$${}_0S^{iss} = \frac{(D+l-s)!}{(D-n)!} \cdot \frac{(n-s+1)!}{(l-l)! \cdot (n+l-s+1)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{1} \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s + \mathbb{1} \Rightarrow$$

$${}_0\mathcal{S}^{iss} = \frac{(D + I - s)!}{(D + \iota - n)!} \cdot \frac{(n - s + 1)!}{(\iota - I)! \cdot (n + I - \iota - s + 1)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{1} \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s + \mathbb{1} \Rightarrow$$

$${}_0\mathcal{S}^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \frac{(n - s - I + 1)!}{(\iota - I)! \cdot (n - s + 1)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{1} \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s + \mathbb{1} \Rightarrow$$

$${}_0\mathcal{S}^{iss} = \frac{(D - s)!}{(D + \iota - n)!} \cdot \frac{(n - s - I + 1)!}{(\iota - I)! \cdot (n - \iota - s + 1)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{1} \wedge \mathbb{k} = 0 \wedge \mathbf{s} = s + \mathbb{1} \Rightarrow$$

$${}_0\mathcal{S}^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)}^{n-\mathbb{1}} \sum_{n_s=n_i-j_i+1} \frac{(n_i - s)!}{(n_i - \mathbf{n})! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{1} + \mathbb{k} \wedge \mathbb{k} > 0 \Rightarrow$$

$${}_0\mathcal{S}^{iss} = \frac{(D + I - s)!}{(D - \mathbf{n})!} \cdot \frac{(n - s + 1)!}{(\iota - I)! \cdot (n + I - s + 1)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{1} + \mathbb{k} \wedge \mathbb{k} > 0 \Rightarrow$$

$${}_0\mathcal{S}^{iss} = \frac{(D + I - s)!}{(D + \iota - n)!} \cdot \frac{(n - s + 1)!}{(\iota - I)! \cdot (n + I - \iota - s + 1)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{1} + \mathbb{k} \wedge \mathbb{k} > 0 \Rightarrow$$

$${}_0\mathcal{S}^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \frac{(n - s - I + 1)!}{(\iota - I)! \cdot (n - s + 1)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{1} + \mathbb{k} \wedge \mathbb{k} > 0 \Rightarrow$$

$${}_0\mathcal{S}^{iss} = \frac{(D - s)!}{(D + \iota - n)!} \cdot \frac{(n - s - I + 1)!}{(\iota - I)! \cdot (n - \iota - s + 1)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{1} + \mathbb{k} \wedge \mathbb{k}_z: z \geq 1 \Rightarrow$$

$${}_0\mathcal{S}^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{n-\mathbb{1}} \sum_{n_s=n_i-j_i-\mathbb{k}+1}$$



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

$$D \geq \mathbf{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0\mathcal{S}^{\text{iss}} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0\mathcal{S}^{\text{iss}} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0\mathcal{S}^{\text{iss}} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0\mathcal{S}^{\text{iss}} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} = s + I \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0\mathcal{S}^{\text{iss}} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} = s + I \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{(n_i=n+k)}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-k+1} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{1} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(n_i=n+k)}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-k+1} \frac{(n_i - s - k)!}{(n_i - n - k)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{1} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(n_i=n+k)}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-k+1} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{1} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=n+k}^{n-1} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k} \frac{(n_i - s - k)!}{(n_i - n - k)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{1} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=n+k}^{n-1} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{1} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=n+k}^{n-1} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k}$$

$$\frac{(n_{ik} + j_{ik} - s - \mathbb{k} - 1)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} = s + I \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0\mathcal{S}^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{n-1} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} = s + I \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0\mathcal{S}^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{n-1} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} = s + I \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0\mathcal{S}^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{n-1} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{ik} + j_{ik} - s - \mathbb{k} - 1)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0\mathcal{S}^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \left( \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \right)_{j^{sa}}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k}$$

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

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 1 \Rightarrow$$

$${}_0S^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k}$$

$$\frac{(n_i + j_s + j_{sa} - j^{sa} - s - k - j_{sa}^s)!}{(n_i-n-k)! \cdot (n + j_s + j_{sa} - j^{sa} - s - j_{sa}^s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 1 \Rightarrow$$

$${}_0S^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - k - 2 \cdot j_{sa}^s)!}{(n_i-n-k)! \cdot (n + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 1 \Rightarrow$$

$${}_0S^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k}} (n_i + j^{sa} + j_{sa}^s - j_s - j_{sa} - s - \mathbf{k})! \\ \frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa} - s - \mathbf{k})!}{(n_i - \mathbf{n} - \mathbf{k})! \cdot (\mathbf{n} + j^{sa} + j_{sa}^s - j_s - j_{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

$$I = \mathbb{1} + \mathbf{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbf{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbf{k} \wedge \mathbf{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iSS} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\ \sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k}} \\ \frac{(n_i + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - \mathbf{k})!}{(n_i - \mathbf{n} - \mathbf{k})! \cdot (\mathbf{n} + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

$$I = \mathbb{1} + \mathbf{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbf{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbf{k} \wedge \mathbf{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iSS} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\ \sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k}} \\ \frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbf{k} - j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbf{k})! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

$$I = \mathbb{1} + \mathbf{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbf{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbf{k} \wedge \mathbf{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iSS} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\ \sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iSS} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_{sa}^{sa}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}}$$

$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j_{sa}^{sa} - 2 \cdot j_{sa}^{ik} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j_{sa}^{sa} - 2 \cdot j_{sa}^{ik} - s)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iSS} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_{sa}^{sa}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa} - j_{sa}^{sa} - s - \mathbb{k} - j_{sa}^{ik})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa} - j_{sa}^{sa} - s - j_{sa}^{ik})!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iSS} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_{sa}^{sa}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{sa}^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned} {}_0\mathcal{S}^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\ &\sum_{\binom{(n-l)}{(n_i=\mathbf{n}+\mathbb{k})}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ &\left( \frac{(n_i-s-\mathbb{k})!}{(n_i-\mathbf{n}-\mathbb{k})! \cdot (\mathbf{n}-s)!} \right)_{j^{sa}} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned} {}_0\mathcal{S}^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\ &\sum_{\binom{(n-l)}{(n_i=\mathbf{n}+\mathbb{k})}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ &\frac{(n_i-s-\mathbb{k})!}{(n_i-\mathbf{n}-\mathbb{k})! \cdot (\mathbf{n}-s)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned} {}_0\mathcal{S}^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\ &\sum_{\binom{(n-l)}{(n_i=\mathbf{n}+\mathbb{k})}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ &\frac{(n_i+j_s+j_{sa}-j_{ik}-s-\mathbb{k}-j_{sa}^s-1)!}{(n_i-\mathbf{n}-\mathbb{k})! \cdot (\mathbf{n}+j_s+j_{sa}-j_{ik}-s-j_{sa}^s-1)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \mathbb{k} - 2 \cdot j_{sa}^s + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^s + 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge s = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa} - s - \mathbb{k} + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_{ik} + j_{sa}^s - j_s - j_{sa} - s + 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge s = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \mathbb{k} + 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge s = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$



$$\frac{\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\frac{\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - \mathbb{k} - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{sa} - s - k - j_{sa}^{ik} - 1)!}{(n_i - n - k)! \cdot (n + j_{sa} - s - j_{sa}^{ik} - 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k}$$

$$\frac{(n_i + j_{sa}^{ik} - j_{sa} - s - k + 1)!}{(n_i - n - k)! \cdot (n + j_{sa}^{ik} - j_{sa} - s + 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\left( \frac{(n_i - s - k)!}{(n_i - n - k)! \cdot (n - s)!} \right)_{j_{sa}}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

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$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \left( \frac{(n_i - s - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n - s)!} \right)_{j^{sa}}$$

$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$

$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$

$k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n_i - s - k)!}{(n_i - n - k)! \cdot (n - s)!}$$

$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$

$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$

$k_z: z = 1 \wedge k = k_2 \Rightarrow$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n_i - s - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n - s)!}$$

$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$

$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$

$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}_0S^{iSS} &= \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\ &\sum_{\binom{n-1}{(n_i=n+\mathbb{k})}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\frac{(n_i + j_s + j_{sa} - j^{sa} - s - \mathbb{k} - j_{sa}^s)!}{(n_i - n - \mathbb{k})! \cdot (n + j_s + j_{sa} - j^{sa} - s - j_{sa}^s)!} \end{aligned}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge s = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge s = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}_0S^{iSS} &= \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\ &\sum_{\binom{n-1}{(n_i=n+\mathbb{k})}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\frac{(n_i + j_s + j_{sa} - j^{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j_s + j_{sa} - j^{sa} - s - j_{sa}^s)!} \end{aligned}$$

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$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa} - s - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n + j^{sa} + j_{sa}^s - j_s - j_{sa} - s)!}$$

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$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{\binom{n-l}{(n_i=n+k)}} \sum_{\binom{(\quad)}{(n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\frac{(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - k)!}{(n_i - n - k)! \cdot (n + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s)!}$$

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$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

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&\left( \frac{(n_i-s-\mathbb{k})!}{(n_i-\mathbf{n}-\mathbb{k})! \cdot (\mathbf{n}-s)!} \right)_{j^{sa}}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

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&\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
&\left( \frac{(n_i-s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)! \cdot (\mathbf{n}-s)!} \right)_{j^{sa}}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
&\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
\end{aligned}$$

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

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{\binom{n-1}{(n_i=\mathbf{n}+\mathbb{k})}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_i + j_s + j_{sa} - j_{ik} - s - \mathbb{k} - j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa} - j_{ik} - s - j_{sa}^s - 1)!}$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} (n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 - 2 \cdot j_{sa}^s + 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^s + 1)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_i + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_i + j_s + j_{sa}^{ik} - j^{sa} - s - k - j_{sa}^s + 1)!}{(n_i - n - k)! \cdot (n + j_s + j_{sa}^{ik} - j^{sa} - s - j_{sa}^s + 1)!}$$

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$$\frac{(n_i + j_s + j_{sa}^{ik} - j^{sa} - s - k_1 - k_2 - j_{sa}^s + 1)!}{(n_i - n - k_1 - k_2)! \cdot (n + j_s + j_{sa}^{ik} - j^{sa} - s - j_{sa}^s + 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - k - 1)!}{(n_i - n - k)! \cdot (n + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

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$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j_{sa} - s - \mathbb{k} - j_{sa}^{ik} - 1)!}{(n_i - n - \mathbb{k})! \cdot (n + j_{sa} - s - j_{sa}^{ik} - 1)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n_i + j_{sa} - s - k_1 - k_2 - j_{sa}^{ik} - 1)!}{(n_i - n - k_1 - k_2)! \cdot (n + j_{sa} - s - j_{sa}^{ik} - 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = \mathbf{s} + \mathbb{1} \vee$$

$$I = \mathbb{1} + \mathbf{k} \wedge \mathbf{s} > 1 \wedge \mathbb{1} > 0 \wedge \mathbf{k} > 0 \wedge \mathbf{s} = \mathbf{s} + \mathbb{1} + \mathbf{k} \wedge \mathbf{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iSS} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-1)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbf{k}}$$

$$\frac{(n_i + j_s - s - \mathbf{k} - j_{sa}^s)!}{(n_i + j_s - \mathbf{n} - \mathbf{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = \mathbf{s} + \mathbb{1} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_i + j_s - s - \mathbf{k} - j_{sa}^s)!}{(n_i + j_s - \mathbf{n} - \mathbf{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(n_i + j_s - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s)!}{(n_i + j_s - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s)! \cdot (n-s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$D \geq n < n \wedge k = 0 \wedge I = \mathbb{1} \wedge s = s + \mathbb{1} \vee$$

$$I = \mathbb{1} + k \wedge s > 1 \wedge \mathbb{1} > 0 \wedge k > 0 \wedge s = s + \mathbb{1} + k \wedge k_z: z = 1 \Rightarrow$$

$${}_0S^{iSS} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_{sa}^s=j_{sa})} \sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{s_a}-k} \frac{(n_{ik} + j_{ik} - j_s - s - k)!}{(n_{ik} + j_{ik} - n - k - j_{sa}^s)! \cdot (n - s)!}$$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - \mathbb{k} + 2)!}{(2 \cdot n_i - n_{ik} - j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

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$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(2 \cdot n_i + j_s - n_{ik} - j_{ik} - s - \mathbb{k})!}{(2 \cdot n_i + 2 \cdot j_s - n_{ik} - j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(n_{ik} + j^{sa} - j_s - s - \mathbb{k} - 1)!}{(n_{ik} + j^{sa} - \mathbf{n} - \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j^{sa} - \mathbf{n} - \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^{ik} - s - j^{sa} + 1)!}$$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j^{sa} - s - \mathbb{k} + 3)!}{(2 \cdot n_i - n_{ik} - j^{sa} - n - \mathbb{k} - j_{sa}^s + 3)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(2 \cdot n_i + j_s - n_{ik} - j^{sa} - s - \mathbb{k} + 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{ik} - j^{sa} - n - \mathbb{k} - j_{sa}^s + 1)! \cdot (n-s)!}$$

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$$\frac{(n_{ik} + j_{ik} + \mathbb{k}_1 - j_s - s - \mathbb{k})!}{(n_{ik} + j_{ik} + \mathbb{k}_1 - n - \mathbb{k} - j_{sa}^s)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k}_2 - j_{sa}^s)!}{(n_{ik} + j_{ik} - n - \mathbb{k}_2 - j_{sa}^s)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

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$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s)!}{(n_{ik} + j_{ik} + k_1 - n - k - j_{sa}^s)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_{sa}^s=j_{sa})}$$

$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-k_2}$$

$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - 2 \cdot k_1 - k_2 + 2)!}{(2 \cdot n_i - n_{ik} - j_{ik} - n - 2 \cdot k_1 - k_2 - j_{sa}^s + 2)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

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$$\frac{(2 \cdot n_i + k_2 - n_{ik} - j_s - j_{ik} - s - 2 \cdot k + 2)!}{(2 \cdot n_i + k_2 - n_{ik} - j_{ik} - n - 2 \cdot k - j_{sa}^s + 2)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\frac{(n_{ik} + j^{sa} + k_1 - j_s - s - k - 1)!}{(n_{ik} + j^{sa} + k_1 - n - k - j_{sa}^s - 1)! \cdot (n-s)!}$$

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$$\frac{(n_{ik} + j_{sa}^{ik} - s - k_2 - j_{sa}^s)!}{(n_{ik} + j_{sa} - n - k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_{sa} + 1)!}$$

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$$\sum_{\binom{n-l}{n_i=n+k}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-k_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}$$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j^{sa} - s - 2 \cdot k_1 - k_2 + 3)!}{(2 \cdot n_i - n_{ik} - j^{sa} - n - 2 \cdot k_1 - k_2 - j_{sa}^s + 3)! \cdot (n - s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j^{sa} - 1 \vee$$

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$${}_0S^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_{sa} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (n-s)!}$$

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$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 2 \cdot \mathbb{k} + 3)!}{(3 \cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s + 3)! \cdot (n-s)!}$$

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$${}_0S^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} (3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - s - 2 \cdot \mathbb{k})! \\ \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - s - 2 \cdot \mathbb{k})!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (n-s)!}$$

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$${}_0S^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{sa})} \\ \sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} (2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k})! \\ \frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (n-s)!}$$

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$${}_0S^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{lk}} \sum_{(j^{sa}=j_{ik}+1)} \\ \sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{sa} + j_{ik} - j_s - s + 1)!}{(n_{sa} + j_{ik} - \mathbf{n} - j_{sa}^s + 1)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j_{ik} - \mathbf{n} - j_{sa}^s + 1)! \cdot (\mathbf{n} + j_{sa} - s - j_{ik} - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j^{sa} - s - 2 \cdot \mathbf{k} + 4)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \mathbf{n} - 2 \cdot \mathbf{k} - j_{sa}^s + 4)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j^{sa} - 1 \vee$$



$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{1})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} + 2)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

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$$\frac{(2 \cdot n_i + j_s - n_{sa} - j_{ik} - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - s - 2 \cdot \mathbb{k} + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \mathbf{n} - 2 \cdot \mathbb{k})! \cdot (\mathbf{n} - s)!}$$

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$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa-k}} (3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - s - 2 \cdot k - 1)! \\ \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - s - 2 \cdot k - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\ \sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa-k}} (2 \cdot n_{ik} + j_{ik} - n_{sa} - j_s - s - 2 \cdot k - 1)! \\ \frac{(2 \cdot n_{ik} + j_{ik} - n_{sa} - j_s - s - 2 \cdot k - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_{sa} - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n - s)!}$$

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$${}_0S^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\ \sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa-k}} (n_i + n_{ik} - n_{sa} - s - 2 \cdot k - 1)! \\ \frac{(n_i + n_{ik} - n_{sa} - s - 2 \cdot k - 1)!}{(n_i + n_{ik} + j_s - n_{sa} - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n_{sa} + j^{sa} - j_s - s)!}{(n_{sa} + j^{sa} - n - j_{sa}^s)! \cdot (n - s)!}$$

$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$

$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$

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$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j^{sa} - n - j_{sa}^s)! \cdot (n + j_{sa} - s - j^{sa})!}$$

$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$

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$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$

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$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}_0S^{iSS} &= \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\ &\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\frac{(2 \cdot n_i - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_{sa} - j^{sa} - n - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (n-s)!} \end{aligned}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge s = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge s = s + \mathbb{l} + \mathbb{k} \wedge$$

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$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{\binom{n-1}{(n_i=\mathbf{n}+\mathbf{k})}} \sum_{\binom{()}{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbf{k}_1+1)}} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbf{k}_2}$$

$$\frac{(2 \cdot n_i + j_s - n_{sa} - j^{sa} - s - 2 \cdot \mathbf{k}_1 - 2 \cdot \mathbf{k}_2)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j^{sa} - \mathbf{n} - 2 \cdot \mathbf{k}_1 - 2 \cdot \mathbf{k}_2 - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(2 \cdot n_i + j_s - n_{sa} - j^{sa} - s - 2 \cdot \mathbf{k})!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j^{sa} - \mathbf{n} - 2 \cdot \mathbf{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

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$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

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$$\begin{aligned} {}_0S^{ISS} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\ &\sum_{\binom{n-1}{(n_i=\mathbf{n}+\mathbb{k})}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\frac{(n_i + n_{ik} + j_{ik} - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1)!}{(n_i + n_{ik} + j_s + j_{ik} - n_{sa} - j^{sa} - \mathbf{n} - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}_0S^{ISS} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \\ &\sum_{\binom{n-1}{(n_i=\mathbf{n}+\mathbb{k})}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\frac{(n_i + n_{ik} + j_{ik} + \mathbb{k}_1 - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k})!}{(n_i + n_{ik} + j_s + j_{ik} + \mathbb{k}_1 - n_{sa} - j^{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

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$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_{sa} + j_{ik} - j_s - s + 1)!}{(n_{sa} + j_{ik} - \mathbf{n} - j_{sa}^s + 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j_{ik} - \mathbf{n} - j_{sa}^s + 1)! \cdot (\mathbf{n} + j_{sa} - s - j_{ik} - 1)!}$$

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{}_0S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
&\sum_{\binom{n-l}{(n_i=\mathbf{n}+\mathbb{k})}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
&\frac{(2 \cdot n_i - n_{sa} - j_s - j_{ik} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 1)!}{(2 \cdot n_i - n_{sa} - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s + 1)! \cdot (\mathbf{n} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

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&\frac{(2 \cdot n_i - n_{sa} - j_s - j_{ik} - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_i - n_{sa} - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 1)! \cdot (\mathbf{n} - s)!}
\end{aligned}$$

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\end{aligned}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j^{sa} - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 4)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \mathbf{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s + 4)! \cdot (\mathbf{n} - s)!}$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} (2 \cdot n_i + j_s - n_{sa} - j_{ik} - s - 2 \cdot k - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j_{ik} - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j^{sa} - 1 \vee$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - n - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (n-s)!}$$

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&\frac{(2 \cdot n_{ik} + j_{ik} - n_{sa} - j_s - s - 2 \cdot k_2 - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_{sa} - n - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n-s)!}
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$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S^{iss} &= \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
&\sum_{\binom{n-l}{(n_i=n+k)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2} \\
&\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot k_1 - n_{sa} - j_s - s - 2 \cdot k - 1)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot k_1 - n_{sa} - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n-s)!}
\end{aligned}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S^{iss} &= \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \\
&\sum_{\binom{n-l}{(n_i=n+k)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k_2}
\end{aligned}$$

$$\frac{(n_i + n_{ik} - n_{sa} - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 1)!}{(n_i + n_{ik} + j_s - n_{sa} - \mathbf{n} - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{\binom{n-l}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} + \mathbb{k}_1 - n_{sa} - s - 2 \cdot \mathbb{k} - 1)!}{(n_i + n_{ik} + j_s + \mathbb{k}_1 - n_{sa} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{\binom{n-l}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\left( \frac{(n_i - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \right)_{j_i}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbf{k}}$$

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

$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

$$I = \mathbb{1} + \mathbf{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbf{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbf{k} \wedge \mathbf{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbf{k}}$$

$$\frac{(n_i + j_s - j_i - \mathbf{k} - j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbf{k})! \cdot (\mathbf{n} + j_s - j_i - j_{sa}^s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

$$I = \mathbb{1} + \mathbf{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbf{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbf{k} \wedge \mathbf{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbf{k}}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \mathbf{k} - 2 \cdot j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbf{k})! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

$$I = \mathbb{1} + \mathbf{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbf{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbf{k} \wedge \mathbf{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbf{k}}$$



$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1}^{(n-\mathbb{l})} \sum_{j_{ik}=j_{sa}^{ik}}^{(\ )} \sum_{(j_i=s)} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(n_i + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1}^{(n-\mathbb{l})} \sum_{j_{ik}=j_{sa}^{ik}}^{(\ )} \sum_{(j_i=s)} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1}^{(n-\mathbb{l})} \sum_{j_{ik}=j_{sa}^{ik}}^{(\ )} \sum_{(j_i=s)} \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} {}_0\mathcal{S}^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\ &\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{1})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\ &\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik})!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} {}_0\mathcal{S}^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\ &\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{1})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\ &\frac{(n_i + j_{ik} - j_i - \mathbb{k} - j_{sa}^{ik})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} - j_i - j_{sa}^{ik})!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} {}_0\mathcal{S}^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\ &\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{1})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\ &\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
&\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
&\left( \frac{(n_i-s-\mathbb{k})!}{(n_i-\mathbf{n}-\mathbb{k})! \cdot (\mathbf{n}-s)!} \right)_{j_i}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
&\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
&\frac{(n_i-s-\mathbb{k})!}{(n_i-\mathbf{n}-\mathbb{k})! \cdot (\mathbf{n}-s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
&\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\
&\frac{(n_i+j_s-j_{ik}-\mathbb{k}-j_{sa}^s-1)!}{(n_i-\mathbf{n}-\mathbb{k})! \cdot (\mathbf{n}+j_s-j_{ik}-j_{sa}^s-1)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - k - 2 \cdot j_{sa}^s + 1)!}{(n_i - n - k)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j_i - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - k + 1)!}{(n_i - n - k)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j_i - 1 \vee$$

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$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - k + 1)!}{(n_i - n - k)! \cdot (n + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j_i - 1 \vee$$

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$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i - \mathbb{k} - j_{sa}^{ik} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - j_{sa}^{ik} - 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j_i - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

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$$\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(n_i + j_{sa}^{ik} - 2 \cdot s - k + 1)!}{(n_i - n - k)! \cdot (n + j_{sa}^{ik} - 2 \cdot s + 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\left( \frac{(n_i - s - k)!}{(n_i - n - k)! \cdot (n - s)!} \right)_{j_i}$$

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$${}_0S^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{\binom{(n-l)}{(n_i=n+k)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

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$$\frac{(n_i - s - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n - s)!}$$

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$$\frac{(n_i + j_s - j_i - k - j_{sa}^s)!}{(n_i - n - k)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

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$$\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_i + j_s - j_i - k_1 - k_2 - j_{sa}^s)!}{(n_i - n - k_1 - k_2)! \cdot (n + j_s - j_i - j_{sa}^s)!}$$

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$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - k - 2 \cdot j_{sa}^s)!}{(n_i - n - k)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

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$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \mathbb{k}_1 - \mathbb{k}_2 - 2 \cdot j_{sa}^s)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

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$$\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - k)!}{(n_i - n - k)! \cdot (n + 2 \cdot j_i + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s)!}$$

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$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - k)!}{(n_i - n - k)! \cdot (n + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik})!}$$

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&\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - k_1 - k_2)!}{(n_i - \mathbf{n} - k_1 - k_2)! \cdot (\mathbf{n} + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik})!}
\end{aligned}$$

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&\frac{(n_i + j_{ik} - j_i - k - j_{sa}^{ik})!}{(n_i - \mathbf{n} - k)! \cdot (\mathbf{n} + j_{ik} - j_i - j_{sa}^{ik})!}
\end{aligned}$$

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$$\begin{aligned}
{}_0S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
&\sum_{(n-l)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
&\frac{(n_i + j_{ik} - j_i - k_1 - k_2 - j_{sa}^{ik})!}{(n_i - \mathbf{n} - k_1 - k_2)! \cdot (\mathbf{n} + j_{ik} - j_i - j_{sa}^{ik})!}
\end{aligned}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n-l)}^{(n-l)} \sum_{(n_i=n+k)}^{(n_i=n+k)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(n_{ik}=n_i-j_{ik}-k_1+1)} \sum_{(n_s=n_{ik}+j_{ik}-j_i-k_2)}^{(n_s=n_{ik}+j_{ik}-j_i-k_2)}$$

$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - k)!}{(n_i - n - k)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

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$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j_i - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

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$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
&\sum_{\binom{n-l}{(n_i=\mathbf{n}+\mathbb{k})}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
&\left( \frac{(n_i-s-\mathbb{k})!}{(n_i-\mathbf{n}-\mathbb{k})! \cdot (\mathbf{n}-s)!} \right)_{j_i}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

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&\left( \frac{(n_i-s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)! \cdot (\mathbf{n}-s)!} \right)_{j_i}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

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\end{aligned}$$

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

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

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$${}_0S^{ISS} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n-l}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + j_s - j_{ik} - \mathbb{k} - j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_s - j_{ik} - j_{sa}^s - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

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$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$



$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned} {}_0S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\ &\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{1})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\frac{(n_i + j_s - j_{ik} - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_s - j_{ik} - j_{sa}^s - 1)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j_i - 1 \vee$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} (n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - k_1 - k_2 - 2 \cdot j_{sa}^s + 1)!}{(n_i - n - k_1 - k_2)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - k_1 - k_2 + 1)!}{(n_i - n - k_1 - k_2)! \cdot (n + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(n_i + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_i + j_{sa}^s + j_{sa}^{ik} - j_s - 3 \cdot s + 1)!}$$

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 &\frac{(n_i+j_s+j_{sa}^{ik}-j_i-s-k-j_{sa}^s+1)!}{(n_i-n-k)! \cdot (n+j_s+j_{sa}^{ik}-j_i-s-j_{sa}^s+1)!}
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 &\frac{(n_i+j_s+j_{sa}^{ik}-j_i-s-k_1-k_2-j_{sa}^s+1)!}{(n_i-n-k_1-k_2)! \cdot (n+j_s+j_{sa}^{ik}-j_i-s-j_{sa}^s+1)!}
 \end{aligned}$$

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 \end{aligned}$$

$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned} {}_0S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\ &\sum_{\binom{n-l}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{(\ )}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

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$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i - \mathbb{k} - j_{sa}^{ik} - 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} - j_{sa}^{ik} - 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_i - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^{ik} - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} - j_{sa}^{ik} - 1)!}$$

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$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_i + j_{sa}^{ik} - 2 \cdot s - \mathbb{k} + 1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - 2 \cdot s + 1)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

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$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_i + j_{sa}^{ik} - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + j_{sa}^{ik} - 2 \cdot s + 1)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

$$I = \mathbb{1} + \mathbf{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbf{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbf{k} \wedge \mathbf{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} {}_0S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\ &\sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbf{k}} \\ &\frac{(n_i + j_s - s - \mathbf{k} - j_{sa}^s)!}{(n_i + j_s - \mathbf{n} - \mathbf{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

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$$I = \mathbb{1} + \mathbf{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbf{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbf{k} \wedge \mathbf{k}_z: z = 2 \wedge \mathbf{k} = \mathbf{k}_1 + \mathbf{k}_2 \vee$$

$$I = \mathbb{1} + \mathbf{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbf{k}_2 > 0 \wedge \mathbf{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbf{k} \wedge$$

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$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_i+j_s-s-\mathbb{k}_1-\mathbb{k}_2-j_{sa}^s)!}{(n_i+j_s-n-\mathbb{k}_1-\mathbb{k}_2-j_{sa}^s)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

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$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(n_i + j_s - s - k_1 - k_2 - j_{sa}^s)!}{(n_i + j_s - n - k_1 - k_2 - j_{sa}^s)! \cdot (n - s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \frac{(n_{ik} + j_{ik} - j_s - s - k)!}{(n_{ik} + j_{ik} - n - k - j_{sa}^s)! \cdot (n - s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

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$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k}$$

$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - \mathbb{k} + 2)!}{(2 \cdot n_i - n_{ik} - j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} {}_0S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\ &\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \\ &\frac{(2 \cdot n_i + j_s - n_{ik} - j_{ik} - s - \mathbb{k})!}{(2 \cdot n_i + 2 \cdot j_s - n_{ik} - j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^s - s - j_s)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

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$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{1})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_i - s - \mathbb{k} + 3)!}{(2 \cdot n_i - n_{ik} - j_i - \mathbf{n} - \mathbb{k} - j_{sa}^s + 3)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(2 \cdot n_i + j_s - n_{ik} - j_i - s - \mathbb{k} + 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{ik} - j_i - \mathbf{n} - \mathbb{k} - j_{sa}^s + 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

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$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{1})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_{ik} + j_{ik} - j_s - s - \mathbb{k}_2)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k}_2 - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

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$$\sum_{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2)}$$

$$\frac{(n_{ik} + j_{ik} + \mathbb{k}_1 - j_s - s - \mathbb{k})!}{(n_{ik} + j_{ik} + \mathbb{k}_1 - n - \mathbb{k} - j_{sa}^s)! \cdot (n-s)!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

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$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k}_2 - j_{sa}^s)!}{(n_{ik} + j_{ik} - n - \mathbb{k}_2 - j_{sa}^s)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

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$$\frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s)!}{(n_{ik} + j_{ik} + k_1 - n - k - j_{sa}^s)! \cdot (n + j_{sa}^{ik} - s - j_{ik})!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{\binom{n-l}{(n_i=n+k)}} \sum_{\binom{()}{(n_{ik}=n_i-j_{ik}-k_1+1)}} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - 2 \cdot k_1 - k_2 + 2)!}{(2 \cdot n_i - n_{ik} - j_{ik} - n - 2 \cdot k_1 - k_2 - j_{sa}^s + 2)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

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$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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$$\frac{(2 \cdot n_i + k_2 - n_{ik} - j_s - j_{ik} - s - 2 \cdot k + 2)!}{(2 \cdot n_i + k_2 - n_{ik} - j_{ik} - n - 2 \cdot k - j_{sa}^s + 2)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j_i - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
&\sum_{\binom{n-l}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
&\frac{(n_{ik}+j_i-j_s-s-\mathbb{k}_2-1)!}{(n_{ik}+j_i-\mathbf{n}-\mathbb{k}_2-j_{sa}^s-1)! \cdot (\mathbf{n}-s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

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&\frac{(n_{ik}+j_i+\mathbb{k}_1-j_s-s-\mathbb{k}-1)!}{(n_{ik}+j_i+\mathbb{k}_1-\mathbf{n}-\mathbb{k}-j_{sa}^s-1)! \cdot (\mathbf{n}-s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

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\end{aligned}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - k_2 - j_{sa}^s)!}{(n_{ik} + j_i - n - k_2 - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!}$$

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$$\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(n_{ik} + j_{sa}^{ik} + k_1 - s - k - j_{sa}^s)!}{(n_{ik} + j_i + k_1 - n - k - j_{sa}^s - 1)! \cdot (n + j_{sa}^{ik} - s - j_i + 1)!}$$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_i - s - 2 \cdot k_1 - k_2 + 3)!}{(2 \cdot n_i - n_{ik} - j_i - n - 2 \cdot k_1 - k_2 - j_{sa}^s + 3)! \cdot (n-s)!}$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_s - j_i - s - 2 \cdot \mathbb{k} + 3)!}{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 3)! \cdot (n-s)!}$$

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$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (n-j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

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&\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot k + 2)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot k - j_{sa}^s + 2)! \cdot (n-s)!}
\end{aligned}$$

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$$I = \mathbb{1} + k \wedge s > 1 \wedge \mathbb{1} > 0 \wedge k > 0 \wedge s = s + \mathbb{1} + k \wedge k_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}_0S^{iss} &= \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\
&\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
&\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot k + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot k - j_{sa}^s + 3)! \cdot (n-s)!}
\end{aligned}$$

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&\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \\
&\frac{(2 \cdot n_i + j_s - n_s - j_i - s - 2 \cdot k)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_i - n - 2 \cdot k - j_{sa}^s)! \cdot (n-s)!}
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$$\sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbf{k}} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot \mathbf{k})!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - \mathbf{n} - 2 \cdot \mathbf{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

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$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbf{k}} \frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_s - j_i - s - 2 \cdot \mathbf{k})!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbf{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \vee$$

$$I = \mathbb{1} + \mathbf{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbf{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbf{k} \wedge \mathbf{k}_z: z = 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbf{k}} \frac{(n_i + n_{ik} + j_{ik} - n_s - j_i - s - 2 \cdot \mathbf{k})!}{(n_i + n_{ik} + j_s + j_{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbf{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{1} + \mathbf{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbf{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbf{k} \wedge \mathbf{k}_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbf{k}}$$

$$\frac{(n_s + j_{ik} - j_s - s + 1)!}{(n_s + j_{ik} - \mathbf{n} - j_{sa}^s + 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j_i - 1 \vee$$

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$$\begin{aligned} {}_0S^{iss} &= \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\ &\sum_{(n_i=\mathbf{n}+\mathbf{k})}^{(n-\mathbb{1})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbf{k}} \\ &\frac{(n_s - j_{sa}^s)!}{(n_s + j_{ik} - \mathbf{n} - j_{sa}^s + 1)! \cdot (\mathbf{n} - j_{ik} - 1)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j_i - 1 \vee$$

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$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j_i - 1 \vee$$

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$$D \geq \mathbf{n} < n \wedge \mathbf{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j_i - 1 \vee$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{1})} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} + 2)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j_i - 1 \vee$$

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$$\frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 2 \cdot \mathbb{k} + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - \mathbf{n} - 2 \cdot \mathbb{k})! \cdot (\mathbf{n} - s)!}$$

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$$\sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot k - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j_i - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot k - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_s - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n-s)!}$$

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$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=n+k)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-k} \frac{(n_i + n_{ik} - n_s - s - 2 \cdot k - 1)!}{(n_i + n_{ik} + j_s - n_s - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \mathbf{n} - j_{sa}^s)! \cdot (\mathbf{n} - j_i)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

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$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 2)!}{(2 \cdot n_i - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}_0S^{iss} &= \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\ &\sum_{(n-l)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_s - j_i - n - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (n-s)!} \end{aligned}$$

$$D \geq n < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge s = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

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$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \\ \sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=\mathbf{n}_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ \frac{(2 \cdot n_i + j_s - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (n-s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 3 \cdot k_1 - 2 \cdot k_2)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot k - k_1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - n - 2 \cdot k - k_1 - j_{sa}^s)! \cdot (n-s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge k_z: z = 2 \wedge k = k_1 + k_2 \vee$$

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$$\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_s - j_i - s - 2 \cdot k_2)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_i - n - 2 \cdot k_2 - j_{sa}^s)! \cdot (n-s)!}$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}_0\mathcal{S}^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1}^{(n-l)} \sum_{j_{ik}=j_{sa}^{ik}}^{(\quad)} \sum_{(j_i=s)} \\ &\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - j_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}_0\mathcal{S}^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1}^{(n-l)} \sum_{j_{ik}=j_{sa}^{ik}}^{(\quad)} \sum_{(j_i=s)} \\ &\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\frac{(n_i + n_{ik} + j_{ik} - n_s - j_i - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1)!}{(n_i + n_{ik} + j_s + j_{ik} - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge \mathbf{s} > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} {}_0\mathcal{S}^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1}^{(n-l)} \sum_{j_{ik}=j_{sa}^{ik}}^{(\quad)} \sum_{(j_i=s)} \\ &\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\ &\frac{(n_i + n_{ik} + j_{ik} + \mathbb{k}_1 - n_s - j_i - s - 2 \cdot \mathbb{k})!}{(n_i + n_{ik} + j_s + j_{ik} + \mathbb{k}_1 - n_s - j_i - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_s + j_{ik} - j_s - s + 1)!}{(n_s + j_{ik} - \mathbf{n} - j_{sa}^s + 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_{ik} - \mathbf{n} - j_{sa}^s + 1)! \cdot (\mathbf{n} - j_{ik} - 1)!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
&\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
&\frac{(2 \cdot n_i - n_s - j_s - j_{ik} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 1)!}{(2 \cdot n_i - n_s - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s + 1)! \cdot (\mathbf{n} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

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$$\begin{aligned}
{}_0S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
&\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \\
&\frac{(2 \cdot n_i - n_s - j_s - j_{ik} - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_i - n_s - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 1)! \cdot (\mathbf{n} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

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{}_0S^{iss} &= \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
&\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}
\end{aligned}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_i - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 4)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_i - \mathbf{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s + 4)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

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$${}_0S^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n-l}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_{ik} - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 2)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_{ik} - \mathbf{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s + 2)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - \mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n-l}{n_i=\mathbf{n}+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_i - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 + 4)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_i - \mathbf{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s + 4)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \mathbf{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{l} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{1})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 + 2)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s + 2)! \cdot (n-s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-\mathbb{1})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (n-s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j_i - 1 \vee$$

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$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot k - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j_i - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 3 \cdot k_1 - 2 \cdot k_2 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - n - 3 \cdot k_1 - 2 \cdot k_2)! \cdot (n - s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j_i - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 3 \cdot k_1 - 2 \cdot k_2 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - n - 3 \cdot k_1 - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j_i - 1 \vee$$



$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=\mathbf{n}_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - \mathbf{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=\mathbf{n}_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - \mathbf{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{1} \wedge \mathbf{s} = s + \mathbb{1} \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k} > 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = \mathbb{1} + \mathbb{k} \wedge s > 1 \wedge \mathbb{1} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \mathbf{s} = s + \mathbb{1} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S^{iss} &= \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
&\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
&\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot k_2 - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_s - n - 2 \cdot k_2 - j_{sa}^s - 1)! \cdot (n-s)!}
\end{aligned}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j_i - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S^{iss} &= \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
&\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2} \\
&\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot k_1 - n_s - j_s - s - 2 \cdot k - 1)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot k_1 - n_s - n - 2 \cdot k - j_{sa}^s - 1)! \cdot (n-s)!}
\end{aligned}$$

$$D \geq n < n \wedge k = 0 \wedge I = l \wedge s = s + l \wedge j_{ik} = j_i - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k > 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \wedge j_{ik} = j_i - 1 \vee$$

$$I = l + k \wedge s > 1 \wedge l > 0 \wedge k_2 > 0 \wedge k_1 = 0 \wedge s = s + l + k \wedge$$

$$k_z: z = 1 \wedge k = k_2 \wedge j_{ik} = j_i - 1 \Rightarrow$$

$$\begin{aligned}
{}_0S^{iss} &= \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \\
&\sum_{(n_i=n+k)}^{(n-l)} \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(\quad)} \sum_{n_s=n_{ik}+j_{ik}-j_i-k_2}
\end{aligned}$$

$$\frac{(n_i + n_{ik} - n_s - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 1)!}{(n_i + n_{ik} + j_s - n_s - n - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (n - s)!}$$

$D \geq n < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge s = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge s = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge s = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{\binom{n-l}{n_i=n+\mathbb{k}}} \sum_{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} + \mathbb{k}_1 - n_s - s - 2 \cdot \mathbb{k} - 1)!}{(n_i + n_{ik} + j_s + \mathbb{k}_1 - n_s - n - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (n - s)!}$$

$D \geq n < n \wedge I = \mathbb{l} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z > 1 \Rightarrow$

$${}_0S^{iss} = \prod_{z=3}^s \sum_{\binom{()}{(j_i)_1=2}} \sum_{(j_{ik})_{z-1}=z-1} \sum_{\binom{()}{(j_i)_{z-1}=z \vee z=s \Rightarrow s}}$$

$$\sum_{n_i=n+\mathbb{k}}^{n-l} \sum_{\binom{()}{(n_{ik})_1=n_i-(j_i)_1-\sum_{i=1} \mathbb{k}_i+1}}$$

$$\sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2} \mathbb{k}_i}$$

$$\sum_{\binom{()}{(n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1} \mathbb{k}_i}}$$

$$\frac{(D - s)!}{(D - s - (j_i)_1 + 2)!} \cdot \frac{(D - s - (j_{ik} - j_{sa}^{ik})_{z-1})!}{(D - s - (j_i)_{z-1} + (j_{ik})_{z-1} - (j_{ik} - j_{sa}^{ik})_{z-1} + 1)!}$$

$$\frac{(D - (j_i)_{z=s})!}{(D - n)!}$$

$$\frac{(n_i - (n_{ik})_1 - 1)!}{((j_i)_1 - 2)! \cdot (n_i - (n_{ik})_1 - (j_i)_1 + 1)!} \cdot \frac{((n_{ik})_{z-1} - (n_s)_{z-1} - 1)!}{((j_i)_{z-1} - (j_{ik})_{z-1} - 1)! \cdot ((n_{ik})_{z-1} + (j_{ik})_{z-1} - (n_s)_{z-1} - (j_i)_{z-1})!} \cdot \frac{((n_s)_{z=s} - 1)!}{((n_s)_{z=s} + (j_i)_{z=s} - n - 1)! \cdot (n - (j_i)_{z=s})!}$$

$$D \geq n < n \wedge I = \mathbb{l} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z : z > 1 \Rightarrow$$

$${}_0S^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \frac{1}{(n - s)!} \cdot \prod_{z=3}^s \sum_{(j_i)_1=2}^{(\quad)} \sum_{(j_{ik})_{z-1}=z-1} \sum_{(j_i)_{z-1}=z \vee z=s \Rightarrow s}^{(\quad)} \sum_{n_i=n+\mathbb{k}}^{n-1} \sum_{(n_{ik})_1=n_i-(j_i)_1-\sum_{i=1}^{\mathbb{k}_i} \mathbb{k}_i+1}^{(\quad)} \sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}^{\mathbb{k}_i} \mathbb{k}_i} \sum_{(n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}^{\mathbb{k}_i} \mathbb{k}_i}^{(\quad)} \frac{(n - s)!}{(n - s - (j_i)_1 + 2)!} \cdot \frac{(n - s - (j_{ik} - j_{sa}^{ik})_{z-1})!}{(n - s - (j_i)_{z-1} + (j_{ik})_{z-1} - (j_{ik} - j_{sa}^{ik})_{z-1} + 1)!} \cdot \frac{(n - (j_i)_{z=s})!}{(n - n)!} \cdot \frac{(n_i - (n_{ik})_1 - 1)!}{((j_i)_1 - 2)! \cdot (n_i - (n_{ik})_1 - (j_i)_1 + 1)!} \cdot \frac{((n_{ik})_{z-1} - (n_s)_{z-1} - 1)!}{((j_i)_{z-1} - (j_{ik})_{z-1} - 1)! \cdot ((n_{ik})_{z-1} + (j_{ik})_{z-1} - (n_s)_{z-1} - (j_i)_{z-1})!} \cdot \frac{((n_s)_{z=s} - 1)!}{((n_s)_{z=s} + (j_i)_{z=s} - n - 1)! \cdot (n - (j_i)_{z=s})!}$$

## BAĞIMSIZ DURUMLA BAŞLAYAN DAĞILIMLARDA BAĞIMSIZ-BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİ

Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde  $\{0, 0, 0, 1, 2, 3, 4, 5\}$  veya  $\{0, 0, 0, 1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$ , bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlardan, bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin başladığı ilk bağımlı durum bulunan dağılımlardaki ilk düzgün simetrik olasılıklar; bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik olasılığa eşit olur. Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde, ilk düzgün simetrik olasılıklar,

$${}_0S_0^{iss} = {}_0S^{iss}$$

eşitliğiyle hesaplanabilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlarda, simetri bağımsız durumla başlayıp bağımlı durumla bittiğinde; bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin başladığı ilk bağımlı durumu bulunan dağılımlarda, düzgün simetrik durumların bulunduğu dağılımların sayısına *bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik olasılık* denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik olasılık  ${}_0S_0^{iss}$  ile gösterilecektir.

$$D \geq n < n \wedge I = l \wedge k = 0 \wedge s = s + l \Rightarrow$$

$${}_0S_0^{iss} = \frac{(D + I - s)!}{(D - n)!} \cdot \frac{(n - s + 1)!}{(l - I)! \cdot (n + I - s + 1)!}$$

$$D \geq n < n \wedge I = l \wedge k = 0 \wedge s = s + l \Rightarrow$$

$${}_0S_0^{iss} = \frac{(D + I - s)!}{(D + l - n)!} \cdot \frac{(n - s + 1)!}{(l - I)! \cdot (n + I - l - s + 1)!}$$

$$D \geq n < n \wedge I = l \wedge k = 0 \wedge s = s + l \Rightarrow$$

$${}_0S_0^{iss} = \frac{(D - s)!}{(D - n)!} \cdot \frac{(n - s - I + 1)!}{(l - I)! \cdot (n - s + 1)!}$$

$$D \geq n < n \wedge I = l \wedge k = 0 \wedge s = s + l \Rightarrow$$

$${}_0S_0^{iss} = \frac{(D - s)!}{(D + l - n)!} \cdot \frac{(n - s - I + 1)!}{(l - I)! \cdot (n - l - s + 1)!}$$

$$D \geq n < n \wedge I = l \wedge k = 0 \wedge s = s + l \Rightarrow$$

$${}_0S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)}^{n-l} \sum_{n_s=n_i-j_i+1} \frac{(n_i-s)!}{(n_i-n)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = l + k \wedge k > 0 \Rightarrow$$

$${}_0S_0^{iss} = \frac{(D+I-s)!}{(D-n)!} \cdot \frac{(n-s+1)!}{(l-I)! \cdot (n+I-s+1)!}$$

$$D \geq n < n \wedge I = l + k \wedge k > 0 \Rightarrow$$

$${}_0S_0^{iss} = \frac{(D+I-s)!}{(D+l-n)!} \cdot \frac{(n-s+1)!}{(l-I)! \cdot (n+I-l-s+1)!}$$

$$D \geq n < n \wedge I = l + k \wedge k > 0 \Rightarrow$$

$${}_0S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s-I+1)!}{(l-I)! \cdot (n-s+1)!}$$

$$D \geq n < n \wedge I = l + k \wedge k > 0 \Rightarrow$$

$${}_0S_0^{iss} = \frac{(D-s)!}{(D+l-n)!} \cdot \frac{(n-s-I+1)!}{(l-I)! \cdot (n-l-s+1)!}$$

$$D \geq n < n \wedge I = l + k \wedge k_z: z \geq 1 \Rightarrow$$

$${}_0S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n+k)}^{n-l} \sum_{n_s=n_i-j_i-k+1} \frac{(n_i-s-k)!}{(n_i-D-k)! \cdot (D-s)!}$$

$$D \geq n < n \wedge I = l + k \wedge k_z: z \geq 1 \Rightarrow$$

$${}_0S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n+k)}^{n-l} \sum_{n_s=n_i-j_i-k+1} \frac{(n_i-s-k)!}{(n_i-n-k)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = l + k \wedge s = s + I \wedge k_z: z = 1 \Rightarrow$$

$${}_0S_0^{iss} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=n+k)}^{(n-l)} \sum_{n_{sa}=n_i-j^{sa}-k+1}$$

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

$$D \geq n < n \wedge I = \mathbb{l} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S_0^{iSS} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \\ \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge I = \mathbb{l} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S_0^{iSS} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \\ \frac{(n_i - s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n - s)!}$$

$$D \geq n < n \wedge I = \mathbb{l} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S_0^{iSS} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \\ \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge I = \mathbb{l} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{iSS} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \\ \frac{(n_i - s - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n - s)!}$$

$$D \geq n < n \wedge I = \mathbb{l} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{iSS} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{(n_i=n+\mathbb{k})}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \\ \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge I = \mathbb{l} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S_0^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(n_i=n+k)}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-k+1} \frac{(n_i-s-k)!}{(n_i-n-k)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{1} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S_0^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(n_i=n+k)}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-k+1} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{1} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S_0^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=n+k}^{n-1} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k} \frac{(n_i-s-k)!}{(n_i-n-k)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{1} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S_0^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=n+k}^{n-1} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{1} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \Rightarrow$$

$${}_0S_0^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=n+k}^{n-1} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k} \frac{(n_{ik}+j_{ik}-s-k-1)!}{(n_{ik}+j_{ik}-n-k-1)! \cdot (n-s)!}$$

$$D \geq n < n \wedge I = \mathbb{1} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=n+k}^{n-1} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-k}$$



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

$$D \geq n < n \wedge I = \mathbb{l} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{ISS} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=n+\mathbb{k}}^{n-1} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge I = \mathbb{l} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$$

$${}_0S_0^{ISS} = \frac{(D - s)!}{(D - n)!} \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=n+\mathbb{k}}^{n-1} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{ik} + j_{ik} - s - \mathbb{k} - 1)!}{(n_{ik} + j_{ik} - n - \mathbb{k} - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge I = \mathbb{l} + \mathbb{k} \wedge s = s + I \wedge \mathbb{k}_z: z > 1 \Rightarrow$$

$${}_0S_0^{ISS} = \prod_{z=3}^s \sum_{((j_i)_1=2)}^{(\cdot)} \sum_{(j_{ik})_{z-1}=z-1} \sum_{((j_i)_{z-1}=z \vee z=s \Rightarrow)}^{(\cdot)} \sum_{n_i=n+\mathbb{k}}^{n-1} \sum_{((n_{ik})_1=n_i-(j_i)_1-\sum_{i=1}^{\mathbb{k}_i} \mathbb{k}_i+1)}^{(\cdot)} \sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}^{\mathbb{k}_i} \mathbb{k}_i} \sum_{((n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}^{\mathbb{k}_i} \mathbb{k}_i)}^{(\cdot)} \frac{(D - s)!}{(D - s - (j_i)_1 + 2)!} \cdot \frac{(D - s - (j_{ik} - j_{sa}^{ik})_{z-1})!}{(D - s - (j_i)_{z-1} + (j_{ik})_{z-1} - (j_{ik} - j_{sa}^{ik})_{z-1} + 1)!} \cdot \frac{(D - (j_i)_{z=s})!}{(D - n)!} \cdot \frac{(n_i - (n_{ik})_1 - 1)!}{((j_i)_1 - 2)! \cdot (n_i - (n_{ik})_1 - (j_i)_1 + 1)!}$$

$$\frac{((n_{ik})_{z-1} - (n_s)_{z-1} - 1)!}{((j_i)_{z-1} - (j_{ik})_{z-1} - 1)! \cdot ((n_{ik})_{z-1} + (j_{ik})_{z-1} - (n_s)_{z-1} - (j_i)_{z-1})!} \cdot \frac{((n_s)_{z=s} - 1)!}{((n_s)_{z=s} + (j_i)_{z=s} - \mathbf{n} - 1)! \cdot (\mathbf{n} - (j_i)_{z=s})!}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{1} + \mathbb{k} \wedge \mathbf{s} = s + I \wedge \mathbb{k}_z: z > 1 \Rightarrow$$

$${}_0S_0^{iss} = \frac{(D-s)!}{(D-\mathbf{n})!} \cdot \frac{1}{(\mathbf{n}-s)!} \cdot \prod_{z=3}^s \sum_{(j_i)_1=2}^{(\cdot)} \sum_{(j_{ik})_{z-1}=z-1} \sum_{(j_i)_{z-1}=z \vee z=s \Rightarrow s}^{(\cdot)} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{n-1} \sum_{(n_{ik})_1=n_i-(j_i)_1-\sum_{i=1}^{\mathbb{k}_i+1}}^{(\cdot)} \sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}^{\mathbb{k}_i} \mathbb{k}_i} \sum_{(n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}^{\mathbb{k}_i} \mathbb{k}_i}^{(\cdot)} \frac{(n-s)!}{(n-s-(j_i)_1+2)!} \cdot \frac{(\mathbf{n}-s-(j_{ik}-j_{sa}^{ik})_{z-1})!}{(n-s-(j_i)_{z-1}+(j_{ik})_{z-1}-(j_{ik}-j_{sa}^{ik})_{z-1}+1)!} \cdot \frac{(n-(j_i)_{z=s})!}{(\mathbf{n}-\mathbf{n})!} \cdot \frac{(n_i-(n_{ik})_1-1)!}{((j_i)_1-2)! \cdot (n_i-(n_{ik})_1-(j_i)_1+1)!} \cdot \frac{((n_{ik})_{z-1} - (n_s)_{z-1} - 1)!}{((j_i)_{z-1} - (j_{ik})_{z-1} - 1)! \cdot ((n_{ik})_{z-1} + (j_{ik})_{z-1} - (n_s)_{z-1} - (j_i)_{z-1})!} \cdot \frac{((n_s)_{z=s} - 1)!}{((n_s)_{z=s} + (j_i)_{z=s} - \mathbf{n} - 1)! \cdot (\mathbf{n} - (j_i)_{z=s})!}$$

## BAĞIMLI DURUMLA BAŞLAYAN DAĞILIMLARDA BAĞIMSIZ-BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİ

Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde  $\{0, 0, 0, 1, 2, 3, 4, 5\}$  veya  $\{0, 0, 0, 1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$ , bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlardan, simetrisinin ilk bağımlı durumuyla başlayan dağılımlarda düzgün simetrik olasılık bulunamaz. Fakat burada eşitliği tanımlanacaktır. Böylece simetrisinin ilk bağımlı durumuyla başlayan dağılımlarındaki, düzgün simetrik olasılık,

$${}_0S_D^{iss} = 0$$

eşitliğiyle verilebilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlarda, simetri bağımsız durumla başlayıp bağımlı durumla bittiğinde; simetrisinin ilk bağımlı durumuyla başlayan dağılımlarda, düzgün simetrik durumların bulunduğu dağılımların sayısına *bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik olasılık* denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik olasılık  ${}_0S_D^{iss}$  ile gösterilecektir.

$$D \geq n < n \wedge I = \mathbb{1} \Rightarrow$$

$${}_0S_D^{iss} = 0$$

## İLK DÜZGÜN SİMETRİK BULUNMAMA OLASILIĞI

İlk düzgün simetrik bulunmama olasılıkları da, ilk simetrik bulunmama olasılıkların bulunabileceği dağılımlarda bulunabilirler. Simetrik durumların bulunmadığı simetrisinin başladığı bağımlı durumla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin başladığı durum bulunan dağılımlarında düzgün simetrik durumlarda bulunmaz. Ayrıca düzgün olmayan simetrik durumların bulunduğu dağılımlarda, düzgün simetrik bulunmama olasılığı olarak tanımlandığından, simetrisinin başladığı bağımlı durumla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin başladığı durum bulunan dağılımlarından, düzgün olmayan simetrik durumların bulunduğu dağılımların sayısı ile birlikte aynı dağılımlardan simetrik durumların bulunmadığı dağılımların sayısının toplamıyla ilk düzgün düzgün simetrik bulunmama olasılığı elde edilebilir. Ayrıca simetrisinin başladığı bağımlı durumla başlayan ve/veya bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin başladığı durum bulunan dağılımların sayısından, ilk düzgün simetrik olasılığın farkından da ilk düzgün olmayan simetrik bulunmama olasılıkları elde edilebilir. İlk simetrik bulunmama olasılıklarında olduğu gibi ilk düzgün simetrik bulunmama olasılıklarının eşitlik ve tanımları da hem simetrisinin durumlarına hem de dağılımın başladığı duruma göre ayrı ayrı verilecektir.

### BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİK BULUNMAMA OLASILIĞI

Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde  $\{1, 2, 3, 4, 5\}$  veya  $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$ , bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlardan, simetrisinin başladığı bağımlı durumla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin başladığı bağımlı durum bulunan dağılımlardaki düzgün simetrik bulunmama olasılıkları; bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımın başladığı duruma göre tek simetrik olasılıktan, bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu ilk düzgün simetrik olasılığın farkına eşit olur. Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde, simetrisinin başladığı durumla başlayan ve son olayı bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin ilk durumu olan dağılımlardaki düzgün simetrik bulunmama olasılıkları için;

$$S^{iSS,B} = {}_{0,7}S_1^1 - S^{iSS}$$

eşitliği elde edilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu ilk düzgün simetrik bulunmama olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlarda, simetri bağımlı durumla başlayıp bağımlı durumla bittiğinde; simetrisinin ilk bağımlı durumuyla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin başladığı durum bulunan dağılımlarda, düzgün simetrik

durumların bulunmadığı dağılımların sayısına *bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu ilk düzgün simetrik bulunmama olasılığı* denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu ilk düzgün simetrik bulunmama olasılığı  $S^{ISS,B}$  ile gösterilecektir.

## BAĞIMSIZ DURUMLA BAŞLAYAN DAĞILIMLARDA BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİK BULUNMAMA OLASILIĞI

Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde  $\{1, 2, 3, 4, 5\}$  veya  $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$ , bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlardan, bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin başladığı bağımlı durum bulunan dağılımlardaki düzgün simetrik bulunmama olasılıkları; bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı durumun bağımsız tek simetrik olasılıktan, bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik olasılığın farkına eşit olur. Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde, son olayı bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin ilk durumu olan dağılımlardaki düzgün simetrik bulunmama olasılıkları için;

$$S_0^{ISS,B} = {}_{0,1t}S_1^1 - S_0^{ISS}$$

eşitliği elde edilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli olasılık dağılımlarında, simetri bağımlı durumla başlayıp bağımlı durumla bittiğinde; bağımsız durumla başlayıp sonra simetrisinin ilk bağımlı durumu bulunan dağılımlarda, düzgün simetrik durumların bulunmadığı dağılımların sayısına *bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı* denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı  $S_0^{ISS,B}$  ile gösterilecektir.

## BAĞIMLI DURUMLA BAŞLAYAN DAĞILIMLARDA BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİK BULUNMAMA OLASILIĞI

Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde  $\{1, 2, 3, 4, 5\}$  veya  $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$ , bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlardan, simetrisinin başladığı bağımlı durumla başlayan dağılımlardaki düzgün simetrik bulunmama olasılıkları; bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımın başladığı duruma göre tek simetrik olasılıktan, bağımlı ve bir bağımsız olasılıklı büyük farklı

dizilimli bir bağımlı durumun bağımsız tek simetrik olasılığın farkından, bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik olasılığın çıkarılmasına eşit olur. Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde, simetrisinin başladığı durumla başlayan dağılımlardaki düzgün simetrik bulunmama olasılıkları için;

$$S_D^{iSS,B} = ({}_{0,T}S_1^1 - {}_{0,t}S_1^1) - S_D^{iSS}$$

eşitliği elde edilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli olasılık dağılımlarında, simetri bağımlı durumla başlayıp bağımlı durumla bittiğinde; simetrisinin ilk durumuyla başlayan dağılımlarda, düzgün simetrik durumların bulunmadığı dağılımların sayısına ***bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı*** denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı  $S_D^{iSS,B}$  ile gösterilecektir.

## BAĞIMSIZ-BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİK BULUNMAMA OLASILIĞI

Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde  $\{0, 0, 0, 1, 2, 3, 4, 5\}$  veya  $\{0, 0, 0, 1, 2, \mathbf{0, 0, 0}, 3, 4, \mathbf{0, 0}, 5\}$ , bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlardan, simetrisinin başladığı bağımlı durumla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu, simetrisinin ilk bağımlı durumu bulunan dağılımlardaki düzgün simetrik bulunmama olasılıkları; bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımın başladığı duruma göre tek simetrik olasılıktan, bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik olasılığın farkına eşit olur. Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde, simetrisinin başladığı bağımlı durumla başlayan ve son olayı bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin ilk bağımlı durumu olan dağılımlardaki düzgün simetrik bulunmama olasılıkları için;

$${}_0S^{ISS,B} = {}_{0,T}S_1^1 - {}_0S^{ISS}$$

eşitliği elde edilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik bulunmama olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlarında, simetri bağımsız durumla başlayıp bağımlı durumla bittiğinde; simetrisinin ilk bağımlı durumuyla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin başladığı durum bulunan dağılımlarda, düzgün simetrik durumların bulunmadığı dağılımların sayısına *bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik bulunmama olasılığı* denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik bulunmama olasılığı  ${}_0S^{ISS,B}$  ile gösterilecektir.

## BAĞIMSIZ DURUMLA BAŞLAYAN DAĞILIMLARDA BAĞIMSIZ- BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİK BULUNMAMA OLASILIĞI

Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde  $\{0, 0, 0, 1, 2, 3, 4, 5\}$  veya  $\{0, 0, 0, 1, 2, \mathbf{0, 0, 0}, 3, 4, \mathbf{0, 0}, 5\}$ , bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlardan, bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin başladığı bağımlı durum bulunan dağılımlardaki düzgün simetrik bulunmama olasılıkları; bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı durumun bağımsız tek simetrik olasılıktan, bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik olasılığın farkına eşit olur. Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde, son olayı bağımsız durumla başlayıp sonraki ilk bağımlı durumu

simetrisinin ilk bağımlı durumu olan dağılımlardaki düzgün simetrik bulunmama olasılıkları için,

$${}_0S_0^{ISS,B} = {}_{0,1t}S_1^1 - {}_0S_0^{ISS}$$

eşitliği elde edilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlarda, simetri bağımsız durumla başlayıp bağımlı durumla bittiğinde; bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrisinin başladığı ilk bağımlı durumu bulunan dağılımlarda, düzgün simetrik durumların bulunmadığı dağılımların sayısına **bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı** denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik bulunama olasılığı  ${}_0S_0^{ISS,B}$  ile gösterilecektir.

## BAĞIMLI DURUMLA BAŞLAYAN DAĞILIMLARDA BAĞIMSIZ-BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİK BULUNMAMA OLASILIĞI

Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde  $\{0, 0, 0, 1, 2, 3, 4, 5\}$  veya  $\{0, 0, 0, 1, 2, \mathbf{0, 0, 0}, 3, 4, \mathbf{0, 0}, 5\}$ , bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlardan, simetrisinin başladığı bağımlı durumla başlayan dağılımlardaki düzgün simetrik bulunmama olasılıkları; bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımın başladığı duruma göre tek simetrik olasılıktan, bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bir bağımlı durumun bağımsız tek simetrik olasılığın farkından, bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik olasılığın çıkarılmasına eşit olur. Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde, simetrisinin başladığı bağımlı durumla başlayan dağılımlardaki düzgün simetrik bulunmama olasılıkları için,

$${}_0S_D^{ISS,B} = ({}_{0,t}S_1^1 - {}_{0,1t}S_1^1) - {}_0S_D^{ISS}$$

eşitliği elde edilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli dağılımlarda, simetri bağımsız durumla başlayıp bağımlı durumla bittiğinde; simetrisinin ilk bağımlı durumuyla başlayan dağılımlarda, düzgün simetrik durumların bulunmadığı dağılımların sayısına **bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı** denir. Bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı  ${}_0S_D^{ISS,B}$  ile gösterilecektir.



## BÖLÜM E1 İLK DÜZGÜN SİMETRİK OLASILIK

### ÖZET

**Bağımlı ve Bir Bağımsız Olasılıklı Büyük Farklı Dilimli Dağılımlardan Simetrisinin İlk Bağımlı Durumuyla Başlayan ve Bağımsız Durumla Başlayıp Sonraki İlk Bağımlı Durumunda Simetrisinin İlk Bağımlı Durumu Bulunan Dağılımlardaki İlk Düzgün Simetrik Olasılıklar**

$$S^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s-I+1)!}{(t-I)! \cdot (n-s+1)!}$$

$${}_0S^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s-I+1)!}{(t-I)! \cdot (n-s+1)!}$$

$${}^0S^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s-I+1)!}{(t-I)! \cdot (n-s+1)!}$$

$$S^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n+k)}^n \sum_{n_s=n_i-s-k+1}$$

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

$${}_0S^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n+k)}^{n-1} \sum_{n_s=n_i-j_i-k+1}$$

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

$${}^0S^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n+k+I)}^n \sum_{n_s=n_i-j_i-k+1}$$

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

$$\text{Bağımsız-Bağımsız} {}^0S^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n+k+I)}^{n-1} \sum_{n_s=n_i-j_i-k+1}$$

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

**Bağımlı ve Bir Bağımsız Olasılıklı Büyük Farklı Dilimli Dağılımlardan Bağımsız Durumla Başlayıp Sonraki İlk Bağımlı Durumunda Simetrisinin İlk Bağımlı Durumu Bulunan Dağılımlardaki İlk Düzgün Simetrik Olasılıklar**

$$S_0^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s-l)!}{(l-l-1)! \cdot (n-s+1)!}$$

$${}_0S_0^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s-l+1)!}{(l-l)! \cdot (n-s+1)!}$$

$${}^0S_0^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \frac{(n-s-l)!}{(l-l-1)! \cdot (n-s+1)!}$$

$$\text{Bağımsız-Bağımsız} {}^0S_0^{iSS} = \frac{(n-s-l+1)!}{(l-l)! \cdot (n-s+1)!}$$

$$S_0^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n+k)}^{n-1} \sum_{n_s=n_i-s-k+1}$$

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

$${}_0S_0^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n+k)}^{n-1} \sum_{n_s=n_i-j_i-k+1}$$

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

$${}^0S_0^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n+k+l)}^{n-1} \sum_{n_s=n_i-j_i-k+1}$$

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

$$\text{Bağımsız-Bağımsız} {}^0S_0^{iSS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n+k+l)}^{n-1} \sum_{n_s=n_i-j_i-k+1}$$

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

**Bağımlı ve Bir Bağımsız Olasılıklı Büyük Farklı Dilimli Dağılımlardan Simetrisinin İlk Bağımlı Durumuyla Başlayan Dağılımlardaki İlk Düzgün Simetrik Olasılıklar**

$$S_D^{ISS} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-s-l)!}{(l-l)!}$$

$${}_0S_D^{ISS} = 0$$

$${}_0S_D^{ISS} = \frac{(D-s)!}{(D-n)!} \cdot \frac{1}{(n-s)!} \cdot \frac{(n-s-l)!}{(l-l)!}$$

$$\text{Bağımsız-Bağımsız-} {}_0S_D^{ISS} = 0$$

$$S_D^{ISS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n_i-s-k+1} \frac{(n_i-s-k)!}{(n_i-n-k)! \cdot (n-s)!}$$

$${}_0S_D^{ISS} = \frac{(D-s)!}{(D-n)!} \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n-j_i-k+1} \frac{(n-s-k-l)!}{(n-n-k-l)! \cdot (n-s)!}$$

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bağımlı birlikte ilk düzgün olmayan simetrik bulunmama olasılığı, 2.2.9/652

VDOİHİ’de Olasılık ve İhtimal konularının tanım ve eşitlikleri verilmektedir. Ayrıca VDOİHİ’de olasılık ve ihtimalin uygulama alanlarına da yer verilmektedir. Bu cilt, bağımlı ve bir bağımsız olasılıklı büyük farklı dizilimli bağımlı-bağımlı ve bağımsız-bağımlı durumlu simetrisinin ilk düzgün simetrik olasılığı ve ilk düzgün simetrik bulunmama olasılıklarının tanım ve eşitliklerinden oluşmaktadır.

VDOİHİ Bağımlı ve Bir Bağımsız Olasılıklı Büyük Farklı Dizilimli Bağımlı-Bağımlı ve Bağımsız-Bağımlı Durumlu Simetrisinin İlk Düzgün Simetrik Olasılık kitabında, bağımlı durum sayısı, bağımlı olay sayısından büyük farklı dizilimli dağılımlar ve bir bağımsız olasılıklı dağılımla elde edilebilecek yeni olasılık dağılımlarından, simetrisinin ilk bağımlı durumuyla başlayan ve bağımsız durumla başlayıp ilk bağımlı durumu simetrisinin ilk bağımlı durumu olan dağılımlarda, bağımlı-bağımlı ve bağımsız-bağımlı durumlardan oluşan simetrisinin; düzgün simetrik olasılıkları ve düzgün simetrik bulunmama olasılıklarının tanım ve eşitlikleri verilmektedir. Ayrıca bu olasılıkların tanım ve eşitlikleri dağılımın başladığı durumlara göre de verilmektedir.

VDOİHİ’nin diğer ciltlerinde olduğu gibi bu ciltte de verilen ilk düzgün simetrik olasılık eşitlikleri hem olasılık tablolarından elde edilen verilerle hem de teorik yöntemle üretilmiştir. Tanım ve eşitliklerin üretilmesinde dış kaynak kullanılmamıştır.