# VDOİHİ

# Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dizilimli Bağımlı-Bağımlı ve Bağımsız-Bağımlı Durumlu Simetrinin İlk Düzgün Simetrik Olasılığı

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*1. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli ilk düzgün simetrik olasılık 2. Bağımlı durumlu simetrinin ilk düzgün simetrik olasılığı 3. Bağımsız-bağımlı durumlu simetrinin 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 deklaritif 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 sayısallaştırılamayan verileri, **a**nlamlı en **k**üçük **p**arça (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 semplisitede sayısallaştırılmasıyla **V**eri **D**eğişkenleri **O**lasılık ve **İ**htimal **H**esaplama **İ**statistiği (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 yapılıp), 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 **P**roblem **Ç**özüm **T**ekniklerini (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

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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

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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 vurmayı 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 belirtilmişti. 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; simetrinin son durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik olasılık eşitliği) c) hem değişken uzunluklu hem işlem uzunluklu (örneğin; simetrinin 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; $\sum_{i=s}^{n} \mp$ ) yapılarda verilmektedir. Sabit değişkenli eşitliklerle, bilim ve teknolojideki 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 İlmi 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. İkiden 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

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kesin olarak hesaplanabilir. Böylece VDOİHİ'de verilen eşitliklerle hem istenilen tabanda hem de istenilen dağılım türlerinde çalışabilecek elektronik teknolojisinin 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 teknolojisinin 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 üretilemeyen 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 özgürlerinin gasp edilmesinin önünde güçlü bir engel teşkil edecektir. Bugüne kadar artifical inteligence 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 olamayan 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 şuurluluğun 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

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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 önlenebilmesi nedenleriyle ve en önemlisi Yaradan'ın bizlere verdiği adaletin insan tarafından saptırılamaması için; VDOİHİ, bugüne kadarki eserlerle kıyaslanamayacak ölçüde daha kapsamlı verilmeye çalışılmaktadır.

Yazar VDOİHİ'nin ciltlerini, Türkçe ve insanlığın tek evrensen dili olan matematik-mantık dillerinde yazmaktadır. Yazar eserlerinden insanlığın aynı niteliklerle yararlanabilmesi için her kişiye eşit mesafede ve anlaşılırlıkta 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 teknolojideki kaderimiz veriyle ilişkilendirilmiş.*

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# İÇİNDEKİLER



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# Simge ve Kısaltmalar

$n$: olay sayısı

$\boldsymbol{n}$: bağımlı olay sayısı

$\mathbb{m}$: 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 ($\mathrm{j_{ik}}$'da bulunan durum), bir bağımlı ve bir bağımsız olasılıklı dağılımlarda bulunabileceği olayların, ilk olaydan itibaren sırası veya simetrinin iki bağımlı durum arasında bağımsız durumun bulunduğunda 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 $\mathrm{j^{sa}}$'da bulunan durumun (simetrinin $\mathrm{j_{sa}}$' daki bağımlı durum) bir bağımlı ve bir bağımsız olasılıklı dağılımlarda bulunabileceği olayların, dağılımın ilk olayından itibaren sırası

$\iota$: bağımsız durum sayısı

$I$: simetrinin bağımsız durum sayısı

$\mathbb{l}$: simetrinin bağımlı durumlarından önce bulunan bağımsız durum sayısı

$\boldsymbol{I}$: simetrinin bağımlı durumlarından sonra bulunan bağımsız durum sayısı

$\mathbb{k}$: 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 $\left(j_{sa}^{i} = s\right)$

$j_{ik}$: 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 bulunduğunda bağımsız durumdan önceki bağımlı durumun bağımlı olasılıklı dağılımlarda bulunabileceği olayların son olaydan itibaren sırası

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

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

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

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

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

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

$D$: bağımlı durum sayısı

$D_i$: olayın durum sayısı

$s$: simetrinin bağımlı durum sayısı

$\boldsymbol{s}$: simetrik durum sayısı. Simetrinin bağımlı ve bağımsız durum sayısı

$\boldsymbol{n_s}$: simetrinin bağımlı olay sayısı

$\mathbb{m}_I$: simetrinin 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 farklı dizilimli bağımlı durumlu simetrik olasılık

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

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

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

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

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

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

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

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

$S_0^{\dot{I}S}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk simetrik olasılık

$S_0^{\dot{I}SS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik olasılık

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

$S_D^{\dot{I}S}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk simetrik olasılık

$S_D^{\dot{I}SS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik olasılık

${}_0S$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu simetrik olasılık

${}_0S^{\dot{I}S}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk simetrik olasılık

${}_0S^{\dot{I}SS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik olasılık

${}_0S_0$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız simetrik olasılık

${}_0S_0^{\dot{I}S}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk simetrik olasılık

${}_0S_0^{\dot{I}SS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik olasılık

${}_0S_D$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı simetrik olasılık

${}_0S_D^{\dot{I}S}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk simetrik olasılık

${}_0S_D^{\dot{I}SS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik olasılık

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

${}^0S^{\dot{I}S}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu ilk simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu ilk simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu ilk simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu ilk simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu ilk simetrik olasılık

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

${}^{0}S_0$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımsız simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu bağımsız simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu bağımsız simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu bağımsız simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu bağımsız simetrik olasılık

${}^{0}S_0^{İs}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı bir bağımlı-bir bağımsız bağımsız ilk simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı bağımlı-bir bağımsız bağımsız ilk simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı bir bağımlı-bağımsız bağımsız ilk simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı bağımlı-bağımsız bağımsız ilk simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı bağımsız-bağımsız bağımsız ilk simetrik olasılık

${}^{0}S_0^{İss}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımsız ilk düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu bağımsız ilk düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu bağımsız ilk düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu bağımsız ilk düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu bağımsız ilk düzgün simetrik olasılık

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

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

${}^{0}S_{D}^{İSS}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımlı ilk düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu bağımlı ilk düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu bağımlı ilk düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu bağımlı ilk düzgün simetrik olasılık veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu bağımlı ilk düzgün simetrik olasılık

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$S^{DSD}_{j_s,j_{ik},j^{sa}}$: simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli düzgün simetrik olasılık

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

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

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

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

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

$S_{art\,j^{sa}\Rightarrow}$: simetrinin art arda durumlarına bağlı bağımlı olasılıklı farklı dizilimli simetrik ayrım olasılığı

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

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

$S_{j_s,j^{sa}\Rightarrow}$: simetrinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre bağımlı olasılıklı farklı dizilimli simetrik ayrım olasılığı

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

GÜLDÜNYA

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

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

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

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

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

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

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

$S^{DOSD}_{j^{sa}}$: simetrinin durumuna bağlı bağımlı olasılıklı farklı dizilimli düzgün olmayan simetrik olasılık

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

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

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

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

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

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

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

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

$S_{BB j_i}$: bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımlı durumun simetrinin son durumuna bağlı simetrik olasılık

$S_{BB j^{sa}\Leftarrow}$: bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrinin bir bağımlı durumuna bağlı simetrik bitişik olasılık

$S_{BB j_{ik}, j^{sa}\Leftarrow}$: bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrinin iki bağımlı durumuna bağlı simetrik bitişik olasılık

GÜLDÜNYA

$S_{BBj_s,j^{sa}\Leftarrow}$: bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrinin 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 simetrinin 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 simetrinin 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 simetrinin 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 simetrinin bir bağımlı durumuna bağlı simetrik ayrım olasılığı

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

$S_{BBj_s,j^{sa}\Rightarrow}$: bir bağımlı ve bir bağımsız olasılıklı dağılımın bağımlı-bağımsız-bağımlı durumun simetrinin ilk ve herhangi bir bağımlı durumuna bağlı simetrik ayrım olasılığı

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

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

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

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

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

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

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

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

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

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

$S_0^{\dot{I}SS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı

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

$S_D^{\dot{I}S,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk simetrik bulunmama olasılığı

$S_D^{\dot{I}SS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı

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

${}_0S^{\dot{I}S,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk simetrik bulunmama olasılığı

${}_0S^{\dot{I}SS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik bulunmama olasılığı

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

${}_0S_0^{\dot{I}S,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk simetrik bulunmama olasılığı

${}_0S_0^{\dot{I}SS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı

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

${}_0S_D^{\dot{I}S,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk simetrik bulunmama olasılığı

${}_0S_D^{\dot{I}SS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı

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

${}^0S^{\dot{I}S,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu ilk simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu ilk simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu ilk simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu ilk simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu ilk simetrik bulunmama olasılığı

${}^0S^{\dot{I}SS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu ilk düzgün simetrik bulunmama olasılığı

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

$^{0}S_{0}^{\dot{I}S,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı bir bağımlı-bir bağımsız bağımsız ilk simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı bağımlı-bir bağımsız bağımsız ilk simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı bir bağımlı-bağımsız bağımsız ilk simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı bağımlı-bağımsız bağımsız ilk simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı bağımsız-bağımsız bağımsız ilk simetrik bulunmama olasılığı

$^{0}S_{0}^{\dot{I}SS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı

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

$^{0}S_{D}^{\dot{I}S,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımlı ilk simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir t

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

${}^{0}S_{D}^{İSS,B}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bir bağımsız durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bir bağımsız durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı-bağımsız durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımsız durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı veya bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımsız durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı

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

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

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

${}_{D}^{1}S_{1}^{1}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir olay için bağımlı tek simetrik olasılık

${}_{0}^{1}S_{1}^{1}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir olay için bağımsız tek simetrik olasılık

${}_{0}^{1}S_{1}^{1,B}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir olay için bağımsız tek simetrik bulunmama olasılığı

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

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

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

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

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

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

${}_{0}S^{BS}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte simetrik olasılık

${}_{0}S^{İS,BS}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte ilk simetrik olasılık

${}_{0}S^{İSS,BS}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte ilk düzgün simetrik olasılık

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

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

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

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

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

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

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

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

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

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

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

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

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

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

${}_0S^{BS,B}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte simetrik bulunmama olasılığı

${}_0S^{\dot{I}S,BS,B}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte ilk simetrik bulunmama olasılığı

${}_0S^{\dot{I}SS,BS,B}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli birlikte ilk düzgün simetrik bulunmama olasılığı

${}_0S_0^{BS,B}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte simetrik bulunmama olasılığı

${}_0S_0^{\dot{I}S,BS,B}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte ilk simetrik bulunmama olasılığı

${}_0S_0^{\dot{I}SS,BS,B}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız birlikte ilk düzgün simetrik bulunmama olasılığı

${}_0S_D^{BS,B}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte simetrik bulunmama olasılığı

${}_0S_D^{\dot{I}S,BS,B}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte ilk simetrik bulunmama olasılığı

${}_0S_D^{\dot{I}SS,BS,B}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı birlikte ilk düzgün simetrik bulunmama olasılığı

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

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

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

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

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

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

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

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

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

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

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# D

**Bağımlı ve Bir Bağımsız Olasılıklı Farlı Dizilimli Dağılımlar**

- **İlk Düzgün Simetri**
- **Bağımlı Durumlu İlk Düzgün Simetri**
- **Bağımsız-Bağımlı Durumlu İlk Düzgün Simetri**

# BAĞIMLI VE BİR BAĞIMSIZ OLASILIKLI FARKLI DİZİLİMLİ DAĞILIMLAR

Önceki bölümlerde durum sayısı olay sayısına eşit veya büyük olan bağımlı olasılıklı dağılımların olasılıkları incelendi. Bu bölümde durum sayısı olay sayısından küçük bağımlı olasılık $(D < n)$ veya bağımlı ve bir bağımsız durumlu dağılımın olasılıkları incelenecektir. Bağımlı durum sayısı bağımlı olay sayısı eşit, bağımlı durum sayısı bağımlı olay sayısından büyük farklı dizilimli veya farklı dizilimsiz bağımlı durum sayısının bağımlı olay sayısından büyük her bir dağılımına bağımsız olasılıklı seçimle belirlenen bir bağımsız durumun dağılımıyla, bağımlı ve bir bağımsız olasılıklı dağılımlar elde edilebilir. Bu dağılımlar; bağımlı ve bir bağımsız olasılıklı farklı dizilimli veya bağımlı ve bir bağımsız olasılıklı farlı dizilimsiz dağılımlardır. Durum sayısı olay sayısından küçük olduğunda yapılacak seçimlerde $n - D$ kadar olaya durum belirlenemez. Yapılacak seçimlerde farklı dizilimli ve farklı dizilimsiz dağılımlarda durum belirlenmeyen olayların durumları sıfır $(0)$ ile gösterilebilir. Bir olasılık dağılımında $n - D$ kadar sıfırın veya aynı bağımsız durumun olması, bağımsız olasılıklı seçimlerde, bir dağılımın birden fazla olayında aynı durumun belirlenebilmesiyle ilgilidir.

Bu bölümde, yapılacak her bir seçimde bir durumun belirlenebileceği ***bağımlı durum sayısı bağımlı olay sayısına eşit*** $(D = \boldsymbol{n}\ \boldsymbol{ve}\ "\boldsymbol{n}: bağımlı\ olay\ sayısı")$ seçimlerle elde edilebilecek, bağımlı ve bir bağımsız olasılıklı 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 sınıflandırılacaktır. Simetri bağımsız durumla başladığında, aynı yöntemle simetrinin başladığı bağımlı durum belirlenir.

Olasılık dağılımları; simetrinin 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 farklı dizilimli dağılımlarda, bağımlı olasılıklı dağılımlarda olduğu gibi simetride

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bulunan bağımlı durumlarla başlayan dağılımlardan sadece simetrinin 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, simetrinin ilk bağımlı durumu olan dağılımlar, simetrinin 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 durumuyla 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, bu ilk bağımlı durum, simetrinin ilk bağımlı durumu olan dağılımlar, simetrinin 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. İki 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 sınıflandırılacaktır. 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) 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 farklı dizilimli dağılımlardaki, simetrik ve düzgün simetrik olasılık eşitlikleri hem olasılık dağılım tablo değerlerinden hem de teorik yöntemle çıkarılabilecektir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardaki, düzgün olmayan simetrik olasılıklar ise sadece teorik yöntemlerle çıkarılacaktır. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımların inceleneceği ciltlerde, bulunmama olasılıklarının sadece çıkarılabileceği eşitlikler verilecektir.

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# 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 simetrinin durumları arasında farklı bir durum bulunmayan ve aynı sayıda bağımsız durum bulunan dağılımların sayısına veya simetrinin durumlarının aynı sıralama sayısında bulunabildiği dağılımların sayısına düzgün simetrik olasılık denir. Simetri, bağımlı ve bağımsız durumlardan oluşabileceğinden, hem simetri hem de düzgün simetrilerin bulunduğu dağılımlarda bağımsız durumun dağılımdaki sırası yerine, simetrideki sayısı dikkate alınır. Olasılık dağılımında simetrinin durumları arasında, simetride bulunmayan bir durumun bulunduğu dağılımlara veya simetrinin durumlarının aynı sıralama sayısında bulunamadığı dağılımlar, düzgün olmayan simetrinin 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 (simetrik ve düzgün simetrik olasılıklarıyla)*** eşitliklerle de verilecektir. Bu eşitlikler simetrinin ilk durumuyla başlayan dağılımlardaki aynı şartlı ilk düzgün simetrik olasılık eşitliğinin, belirli değişkenlerle çarpımından, teorik yöntemle elde edilebilir.

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

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VDOİHİ bağımlı olasılık cilt 1'de düzgün simetrik simetrik olasılıklar, olasılık dağılımlarında simetrinin durumları arasında simetride bulunmayan durumlar bulunmadan bulunduğu dağılımların sayısı olarak tanımlanmıştı. İlk düzgün simetrik olasılıklar ise simetrinin başladığı bağımlı durumla başlayan dağılımlarda, simetrinin bağımlı durumları arasında simetride bulunmayan bağımlı durumlar bulunmadan bulunabildiği dağılımların sayısı olarak tanımlanmıştı. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardan, simetrinin ilk durumuyla başlayan ve bağımsız durumla başlayıp bağımsız durumdan sonraki ilk bağımlı durumu simetrinin ilk bağımlı durumu olan dağılımlardan, simetrinin durumları arasında (simetrinin bağımlı durumları ve bağımsız durumları) hem simetride bulunmayan bağımlı durum bulunmayan hem de simetrinin bağımsız durum sayısından fazla bağımsız durum bulunmadan, simetrik durumların aynı sıralamada bulunabildiği dağılımların sayısına, ***bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardaki ilk düzgün simetrik olasılık*** denir. Bu ilk düzgün simetrik olasılıklar, bağımı ve bir bağımsız olasılıklı farklı dizilimli dağılımların elde edilebilmesini sağlayan, bağımlı olasılıklı dağılımların, ilk düzgün simetrik olasılıklarıyla elde edilebilir. Bağımlı olasılıklı dağılımlardan, simetrinin bağımlı durumuyla başlayan dağılımlarda, simetrinin bağımlı durumlarının düzgün olarak bulunduğu dağılımlar ve bağısız durumlar ile elde edilebilecek dağılımlardan, simetrinin aynı bağımlı durumları arasında aynı sayıda bağımsız durumların bulunduğu dağılımların sayısı, bağımlı ve bir bağımsız olasılıklı farklı dizilimli ilk düzgün simetrik olasılıkları verir.

Bağımlı olasılıklı dağılımlardaki simetrik olasılıklar; bağımlı durum sayısından, simetrinin bağımlı durum sayısının farkına eşit olduğundan, simetrinin herhangi bir bağımlı durumuna göre simetrinin seçilen bağımlı durumunun bulunabileceği ilk olayda bulunabileceğinden, bağımlı olasılıklı dağılımlardaki düzgün simetrik olasılıkların hesaplanmasını seçilen bağımlı durumlar etkilemez.

Bağımlı ve bir bağımsız olasılıklı dağılımlardan, simetrinin bulunabileceği dağılımın ilk durumunun bulunabileceği olayların her birinde, düzgün simetrik olasılıklar art arda dağılımlarda tekrarlamadan bulunabilirler.

Toplam alınan düzgün simetrik olasılık eşitlikleri, belirli bağımsız değişkenlerle belirlenebilecekken, bu eşitlikler birden çok bağımsız değişkenlerle de verilecektir.

İlk düzgün simetrik olasılıklarda; simetrik olasılıklarda olduğu gibi hem simetrinin durumlarına göre hem de dağılımın başladığı durumlara göre ayrı ayrı tanım ve eşitlikleri aynı sıralamada verilecektir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardaki ilk düzgün simetrik olasılık eşitliklerinin elde edilmesinde; VDOİHİ Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dizilimli Simetrik Olasılık Cilt 2.1.1'de bağımlı olasılıklı dağılımlarda simetrinin durumlarının bulunabileceği olaylara göre verilen olasılık dağılımlarındaki düzgün simetrik olasılık eşitliklerinin, simetrinin ilk bağımlı durumuyla başlayan dağılımlardaki ilk düzgün simetrik olasılıkları veren, eşitliklerin sağımdaki ilk terimlerden yararlanılacaktır.

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# BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİ

Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde $\{1,2,3,4,5\}$ veya $\{1,2,0,0,0,3,4,0,0,5\}$, simetrinin başladığı bağımlı durumla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin başladığı bağımlı durum bulunan dağılımlardaki düzgün simetrik olasılıklar; bağımlı durumların, bağımlı olaylara dağılımlarının ilk düzgün simetrik olasılığıyla, $\frac{(n-s+1)!}{\iota!\cdot(D-s+1)!}$ veya $\frac{(n-\boldsymbol{s}+1)!}{(D-\boldsymbol{s}+I+1)!\cdot(\iota-I)!}$ terimlerinin çarpımına eşit olur. Simetri bağımlı durumlardan oluştuğunda $\{1,2,3,4,5\}$, simetrinin başladığı durumla başlayan ve son olayı bağımsız durumla başlayıp sonraki olayların ilkinde simetrinin ilk durumu bulunan dağılımlardaki, düzgün simetrik olasılıklar için;

$$S^{\text{İ}SS}=\frac{(n-s+1)!}{\iota!\cdot(D-s+1)!}\cdot S_{D=\boldsymbol{n}}^{\text{İ}SS}$$

bu eşitlik düzenlendiğinde,

$$S^{\text{İ}SS}=S_{D=n}^{\text{İ}SS}\cdot\frac{(n-s+1)!}{\iota!\cdot(D-s+1)!}$$

eşitliğin sağındaki bağımlı durum sayısının bağımlı olay sayısına eşit olduğunda ilk düzgün simetrik olasılığın eşiti $\left(D=\boldsymbol{n}\Rightarrow S_{D=\boldsymbol{n}}^{\text{İ}SS}=(D-s)!\right)$ yazıldığında,

$$S^{\text{İ}SS}=(D-s)!\cdot\frac{(n-s+1)!}{\iota!\cdot(D-s+1)!}$$

$$S^{\text{İ}SS}=\frac{(n-s+1)!}{\iota!\cdot(D-s+1)}$$

veya $D=n-\iota$ yazıldığında,

$$S^{\text{İ}SS}=\frac{(n-s+1)!}{\iota!\cdot(n-\iota-s+1)}$$

veya $S_{\iota,j_s,j_i}$ eşitliğinin ilk düzgün simetrik olasılık terimiyle, $S_{BBj_i}$ teriminin çarpımından,

$$S^{\text{İ}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=D)}^{n}\sum_{n_s=n_i-j_i+1}\frac{(n_i-n_s-1)!}{(j_i-2)!\cdot(n_i-n_s-j_i+1)!}\cdot\frac{(n_s-1)!}{(n_s+j_i-D-1)!\cdot(D-j_i)!}$$

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

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 $D = \boldsymbol{n} < n$

$$\frac{(n_i - n_i + j_i - 1 - 1)!}{(j_i - 2)! \cdot (n_i - n_i + j_i - 1 - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - D - 1)! \cdot (D - j_i)!}$$

$$S^{\text{İ}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=D)}^{n} \sum_{n_s=n_i-j_i+1} \frac{(j_i - 1 - 1)!}{(j_i - 2)! \cdot (n_i - n_i + j_i - 1 - j_i + 1)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - D - 1)! \cdot (D - j_i)!}$$

$$S^{\text{İ}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=D)}^{n} \sum_{n_s=n_i-j_i+1} \frac{(j_i - 2)!}{(j_i - 2)!} \cdot \frac{(n_s - 1)!}{(n_s + j_i - D - 1)! \cdot (D - j_i)!}$$

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

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

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

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

$$S^{\text{İ}SS} = \frac{(n - \boldsymbol{s} + 1)!}{(D - \boldsymbol{s} + I + 1)! \cdot (\iota - I)!} \cdot S^{\text{İ}SS}_{D=\boldsymbol{n},s-I}$$

Burada $S^{\text{İ}SS} = \frac{(n-\boldsymbol{s}+1)!}{(D-\boldsymbol{s}+I+1)! \cdot (\iota-I)!} \cdot S^{\text{İ}SS}_{D=\boldsymbol{n},s-I}$ eşitliğinin sağındaki bağımlı durum sayısının bağımlı olay sayısına eşit olduğunda elde edilen ilk düzgün simetrik olasılık eşitliğinde $S^{\text{İ}SS}_{D=\boldsymbol{n}} = (D - s)! \Rightarrow S^{\text{İ}SS}_{D=\boldsymbol{n},s-I} = \big(D - (\boldsymbol{s} - I)\big)! = (D + I - \boldsymbol{s})!$ yazıldığında,

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$$S^{\dot{I}ss} = \frac{(n-\boldsymbol{s}+1)!}{(D+I-\boldsymbol{s}+1)!\cdot(\imath-I)!}\cdot(D+I-\boldsymbol{s})!$$

$$S^{\dot{I}ss} = \frac{(n-\boldsymbol{s}+1)!\cdot(D+I-\boldsymbol{s})!}{(\imath-I)!\cdot(D+I-\boldsymbol{s}+1)!}$$

$$S^{\dot{I}ss} = \frac{(n-\boldsymbol{s}+1)!}{(\imath-I)!\cdot(D+I-\boldsymbol{s}+1)}$$

veya bu eşitlikte D yerine $D = n - \imath$ yazıldığında,

$$S^{\dot{I}ss} = \frac{(n-\boldsymbol{s}+1)!\cdot\big((n-\imath)+I-\boldsymbol{s}\big)!}{(\imath-I)!\cdot\big((n-\imath)+I-\boldsymbol{s}+1\big)!}$$

$$S^{\dot{I}ss} = \frac{(n-\boldsymbol{s}+1)!\cdot(n+I-\imath-\boldsymbol{s})!}{(\imath-I)!\cdot(n+I-\imath-\boldsymbol{s}+1)!}$$

$$S^{\dot{I}ss} = \frac{(n-\boldsymbol{s}+1)!}{(\imath-I)!\cdot(n+I-\imath-\boldsymbol{s}+1)}$$

veya $\boldsymbol{s} = s + I$ olacağından,

$$S^{\dot{I}ss} = \frac{(n-s-I+1)!}{(D-s+1)!\cdot(\imath-I)!}\cdot S^{\dot{I}ss}_{D=\boldsymbol{n}}$$

ve burada $S^{\dot{I}ss}_{D=\boldsymbol{n}} = (D-s)!$

$$S^{\dot{I}ss} = \frac{(n-s-I+1)!}{(D-s+1)!\cdot(\imath-I)!}\cdot(D-s)!$$

$$S^{\dot{I}ss} = \frac{(n-s-I+1)!}{(D-s+1)\cdot(\imath-I)!}$$

$$S^{\dot{I}ss} = \frac{(n-s-I+1)!}{(\imath-I)!\cdot(D-s+1)}$$

veya bu eşitlikte D yerine $D = n - \imath$ yazıldığında,

$$S^{\dot{I}ss} = \frac{(n-s-I+1)!}{(\imath-I)!\cdot(n-\imath-s+1)}$$

$$S^{\dot{I}ss} = \frac{(n-s-I+1)!}{(\imath-I)!\cdot(n-s-\imath+1)}$$

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

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$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{n} \sum_{n_s=n_i-j_i-\Bbbk+1} \frac{(n_s-1)!}{(n_s+j_i-D-1)! \cdot (D-j_i)!}$$

$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{n} \sum_{n_s=n_i-j_i-\Bbbk+1} \frac{(n_i-s-\Bbbk+1-1)!}{(n_i-s-\Bbbk+1+s-D-1)! \cdot (D-s)!}$$

$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{n} \sum_{n_s=n_i-j_i-\Bbbk+1} \frac{(n_i-s-\Bbbk)!}{(n_i-D-\Bbbk)! \cdot (D-s)!}$$

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;

$$S^{\dot{I}SS} = \prod_{z=3}^{s} \sum_{((j_i)_1=2)}^{(\ )} \sum_{(j_{ik})_{z-1}=z-1} \sum_{((j_i)_{z-1}=z \vee z=s \Rightarrow s)}^{(\ )} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{\left((n_{ik})_1=n_i-(j_i)_1-\sum_{i=1}\Bbbk_i+1\right)}^{(\ )} \sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}\Bbbk_i} \sum_{\left((n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}\Bbbk_i\right)}^{(\ )}$$

$$\frac{(D-s)!}{(D-s-(j_i)_1+2)!} \cdot \frac{\left(D-s-\left(j_{ik}-j_{sa}^{ik}\right)_{z-1}\right)!}{\left(D-s-(j_i)_{z-1}+(j_{ik})_{z-1}-\left(j_{ik}-j_{sa}^{ik}\right)_{z-1}+1\right)!} \cdot \frac{(D-(j_i)_{z=s})!}{(D-\boldsymbol{n})!} \cdot \frac{(n_i-(n_{ik})_1-1)!}{((j_i)_1-2)! \cdot (n_i-(n_{ik})_1-(j_i)_1+1)!}.$$

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

$$\frac{((n_s)_{z=s}-1)!}{((n_s)_{z=s}+(j_i)_{z=s}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-(j_i)_{z=s})!}$$

eşitlikleri elde edilir. Bu eşitliklere bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu ilk düzgün simetrik olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlarda, simetri bağımlı 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 farklı dizilimli bağımlı durumlu ilk düzgün simetrik olasılık*** denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu ilk düzgün simetrik olasılık $S^{\dot{I}SS}$ ile gösterilecektir. Yukarıda verilen ilk düzgün simetrik olasılık eşitlikleri, ilk simetrik olasılıkla ilişkili yazılabilir. Bunun için simetri bağımlı durumlardan oluştuğundaki ilk simetrik olasılığın durum sayısıyla ilişkili eşiti $S^{\dot{I}S}=\frac{n!}{(n-D)!\cdot(s-1)!\cdot D}$ olduğundan, yukarıdaki birinci ilk düzgün simetrik olasılık eşitliğinde gerekli düzenlemeler yapıldığında,

$$S^{\dot{I}SS}=\frac{(n-s+1)!}{\imath!\cdot(D-s+1)}=\frac{n!}{(n-D)!\cdot(s-1)!\cdot D}\cdot\frac{(n-D)!\cdot(s-1)!\cdot D}{n!}\cdot\frac{(n-s+1)!}{\imath!\cdot(D-s+1)}$$

$$S^{\dot{I}SS}=S^{\dot{I}S}\cdot\frac{(n-D)!\cdot(s-1)!\cdot D}{n!}\cdot\frac{(n-s+1)!}{\imath!\cdot(D-s+1)}$$

veya yukarıdaki ikinci ilk düzgün simetrik olasılık eşitliğinde $S^{\dot{I}S}=\frac{n!}{\imath!\cdot(s-1)!\cdot(n-\imath)}$ eşitliğiyle ilgili düzenlemeler yapıldığında,

$$S^{\dot{I}SS}=\frac{(n-s+1)!}{\imath!\cdot(n-\imath-s+1)}=\frac{n!}{\imath!\cdot(s-1)!\cdot(n-\imath)}\cdot\frac{(s-1)!\cdot(n-\imath)}{n!}\cdot\frac{(n-s+1)!}{(n-\imath-s+1)}$$

$$S^{\dot{I}SS}=S^{\dot{I}S}\cdot\frac{(s-1)!\cdot(n-\imath)}{n!}\cdot\frac{(n-s+1)!}{(n-\imath-s+1)}$$

eşitlikleri elde edilir.

Simetri bağımlı durumla başlayıp bağımlı durumla bittiğinde; bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardan, simetrinin ilk bağımlı durumla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumunda simetrinin başladığı bağımlı durum bulunan dağılımlardaki düzgün simetrik olasılıklar ile aynı şartlı simetrinin simetrik olasılığıyla ilişkisi kurulabilir. Bu ilişki,

$$S^{\dot{I}SS}=\frac{(n-s-I+1)!}{(\imath-I)!\cdot(D-s+1)}$$

ve

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$$S = \frac{n!}{(s+\imath)!} \cdot \frac{(s+\imath-I)!}{s! \cdot (\imath - I)!}$$

eşitliklerinden kurulabilir. Bunun için ilk eşitlikte,

$$S^{\text{İ}ss} = \frac{(n-s-I+1)!}{(\imath-I)! \cdot (D-s+1)}$$

$$S^{\text{İ}ss} = \frac{1}{(\imath-I)!} \cdot \frac{(n-s-I+1)!}{(D-s+1)}$$

düzenlemesi yapılıp, ikinci eşitlikten,

$$S \cdot \frac{s! \cdot (s+\imath)!}{n! \cdot (s+\imath-I)!} = \frac{1}{(\imath-I)!}$$

elde edilip $S^{\text{İ}ss} = \frac{1}{(\imath-I)!} \cdot \frac{(n-s-I+1)!}{(D-s+1)}$ eşitliğinde yazıldığında,

$$S^{\text{İ}ss} = S \cdot \frac{s! \cdot (s+\imath)!}{n! \cdot (s+\imath-I)!} \cdot \frac{(n-s-I+1)!}{(D-s+1)}$$

olasılık dağılımlarındaki ilk düzgün simetrik olasılıkla, simetrik olasılık arasındaki ilişki eşitliği elde edilir. Simetrinin bağımlı durumla başlayıp bir bağımsız durumla bittiğinde ve bağımlı durumla başlayıp bağımsız durumla bittiğinde hem simetrik hem de ilk düzgün simetrik olasılık eşitlikleri aynı olduğundan, burada elde edilen ilişki simetrinin bu durumları içinde kullanılabilir.

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

$$S^{\text{İ}ss} = \frac{(n-s+1)!}{\imath! \cdot (D-s+1)}$$

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

$$S^{\text{İ}ss} = \frac{(n-s+1)!}{\imath! \cdot (n-\imath-s+1)}$$

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

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

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

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$$S^{\dot{I}ss} = (\boldsymbol{n} - s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n})}^{n} \sum_{n_s=n_i-s+1} \frac{(n_i - s)!}{(n_i - \boldsymbol{n})! \cdot (\boldsymbol{n} - s)!}$$

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

$$S^{\dot{I}ss} = \frac{(n - \boldsymbol{s} + 1)!}{(\imath - I)! \cdot (D + I - \boldsymbol{s} + 1)}$$

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

$$S^{\dot{I}ss} = \frac{(n - \boldsymbol{s} + 1)!}{(\imath - I)! \cdot (n + I - \imath - \boldsymbol{s} + 1)}$$

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

$$S^{\dot{I}ss} = \frac{(n - s - I + 1)!}{(\imath - I)! \cdot (D - s + 1)}$$

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

$$S^{\dot{I}ss} = \frac{(n - s - I + 1)!}{(\imath - I)! \cdot (n - \imath - s + 1)}$$

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

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

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

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

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

$$S^{\dot{I}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1}$$

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

$D = \boldsymbol{n} < n \land I = \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

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

$D = \boldsymbol{n} < n \land I = \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

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

$D = \boldsymbol{n} < n \land I = \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

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

$D = \boldsymbol{n} < n \land I = \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \land j_{ik} = j^{sa} - 1 \Rightarrow$

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

$D = \boldsymbol{n} < n \land I = \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \land j_{ik} = j^{sa} - 1 \Rightarrow$

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

$D = \boldsymbol{n} < n \land I = \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

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$$S^{\dot{\mathrm{I}}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1} \frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n \wedge I=\Bbbk>0 \wedge \boldsymbol{s}=s+\Bbbk \wedge \Bbbk_z\colon z=1 \Rightarrow$

$$S^{\dot{\mathrm{I}}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n \wedge I=\Bbbk>0 \wedge \boldsymbol{s}=s+\Bbbk \wedge \Bbbk_z\colon z=1 \Rightarrow$

$$S^{\dot{\mathrm{I}}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n \wedge I=\Bbbk>0 \wedge \boldsymbol{s}=s+\Bbbk \wedge \Bbbk_z\colon z=1 \Rightarrow$

$$S^{\dot{\mathrm{I}}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n \wedge I=\Bbbk>0 \wedge \boldsymbol{s}=s+\Bbbk \wedge \Bbbk_z\colon z=1 \Rightarrow$

$$S^{\dot{\mathrm{I}}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_{ik}+j_{ik}-s-\Bbbk-1)!}{(n_{ik}+j_{ik}-\boldsymbol{n}-\Bbbk-1)! \cdot (\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n \wedge I=\Bbbk>0 \wedge \boldsymbol{s}=s+\Bbbk \wedge \Bbbk_z\colon z=1 \wedge j_{ik}=j^{sa}-1 \Rightarrow$

$$S^{\dot{\mathrm{I}}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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

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

$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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

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

$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - \Bbbk - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-\Bbbk-j_{sa}^{ik}\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i+j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}-s-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}-s\right)!}$$

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \left(\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\right)_{j^{sa}}$$

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

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

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

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

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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

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

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \Bbbk - 2 \cdot j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^{s} + 1\right)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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

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

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1\right)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \Bbbk - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - 1\right)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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$$S^{\dot{\imath}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i + j_{ik} + j_{sa}^{s} + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - \Bbbk - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1\right)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S^{\dot{\imath}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i + j_{sa} - s - \Bbbk - j_{sa}^{ik} - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{sa} - s - j_{sa}^{ik} - 1\right)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S^{\dot{\imath}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i + j_{sa}^{ik} - j_{sa} - s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - j_{sa} - s + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

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

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

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

$$S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

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

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

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

$$S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - \Bbbk - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

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

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - \Bbbk_1 - \Bbbk_2 - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^{s}\right)!}$$

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$$S^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\left(\frac{(n_i - s - \Bbbk_1 - \Bbbk_2)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}\right)_{j^{sa}}$$

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$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \frac{(n_i + j_s + j_{sa} - j_{ik} - s - \Bbbk_1 - \Bbbk_2 - j_{sa}^{s} - 1)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} + j_s + j_{sa} - j_{ik} - s - j_{sa}^{s} - 1)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

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$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \Bbbk - 2 \cdot j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^{s} + 1\right)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \vee$

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

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \Bbbk_1 - \Bbbk_2 - 2 \cdot j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^{s} + 1\right)!}$$

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

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

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

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \vee$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa} - s - \Bbbk_1 - \Bbbk_2 + 1)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa} - s + 1)!}$$

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

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$$\frac{\left(n_i + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1\right)!}$$

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

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$$S^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \frac{\left(n_i+j^{sa}+j_{sa}^{s}+j_{sa}^{ik}-j_s-2\cdot j_{sa}-s-\Bbbk_1-\Bbbk_2+1\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+j^{sa}+j_{sa}^{s}+j_{sa}^{ik}-j_s-2\cdot j_{sa}-s+1\right)!}$$

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z{:}\,z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j^{sa}-1\vee$

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$$S^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \frac{\left(n_i+j_s+j_{sa}^{ik}-j^{sa}-s-\Bbbk-j_{sa}^{s}+1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_s+j_{sa}^{ik}-j^{sa}-s-j_{sa}^{s}+1\right)!}$$

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

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

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

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

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

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

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

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

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

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\!:z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z\!:z=1\wedge\Bbbk=\Bbbk_2\wedge j_{ik}=j^{sa}-1\Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}^{s}+j_{sa}-j_s-2\cdot j_{sa}^{ik}-s-\Bbbk_1-\Bbbk_2-1\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}^{s}+j_{sa}-j_s-2\cdot j_{sa}^{ik}-s-1\right)!}$$

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

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$$\frac{\left(n_i+j_{sa}-s-\Bbbk-j_{sa}^{ik}-1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{sa}-s-j_{sa}^{ik}-1\right)!}$$

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z\colon z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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$$\frac{\left(n_i + j_{sa} - s - \Bbbk_1 - \Bbbk_2 - j_{sa}^{ik} - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + j_{sa} - s - j_{sa}^{ik} - 1\right)!}$$

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

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$$\frac{\left(n_i + j_{sa}^{ik} - j_{sa} - s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - j_{sa} - s + 1\right)!}$$

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

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

$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

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

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

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

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

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

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$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S^{\dot{\mathrm{I}}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_i + j_s - s - \Bbbk_1 - \Bbbk_2 - j_{sa}^s)!}{(n_i + j_s - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S^{\dot{\mathrm{I}}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

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

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

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

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

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

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$$\frac{\left(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^{s}\right)!}{(n_{ik}+j_{ik}-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s})!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j_{ik}\right)!}$$

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

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z\!: z = 1 \land j_{ik} = j^{sa} - 1 \Rightarrow$

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

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

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_{ik}+j_{sa}^{ik}-s-\Bbbk-j_{sa}^{s}\right)!}{(n_{ik}+j^{sa}-\boldsymbol{n}-\Bbbk-j_{sa}^{s}-1)!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j^{sa}+1\right)!}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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

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

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

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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

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

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

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 2 \cdot \Bbbk - \Bbbk_1 + 3)!}{(3 \cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1 - j_{sa}^{s} + 3)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

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

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

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

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

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

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

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

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

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j_s - j^{sa} - s - 2 \cdot \Bbbk_2)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \Bbbk_2 - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \Bbbk_1 - n_{sa} - j_s - j^{sa} - s - 2 \cdot \Bbbk)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \Bbbk_1 - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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

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

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

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

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

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

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

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

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

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

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j_{ik} - s - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 1)!}{(2 \cdot n_i - n_{sa} - j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - j_{sa}^{s} + 1)! \cdot (\boldsymbol{n} - s)!}$$

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

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

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \vee$

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

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

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - s - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \boldsymbol{n} - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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

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

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

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

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

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

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

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$$\frac{(2 \cdot n_{ik} + j_{ik} - n_{sa} - j_s - s - 2 \cdot \Bbbk_2 - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_{sa} - \boldsymbol{n} - 2 \cdot \Bbbk_2 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

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$$\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \Bbbk_1 - n_{sa} - j_s - s - 2 \cdot \Bbbk - 1)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \Bbbk_1 - n_{sa} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

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$$\frac{(n_i + n_{ik} - n_{sa} - s - 2 \cdot \Bbbk_2 - \Bbbk_1 - 1)!}{(n_i + n_{ik} + j_s - n_{sa} - \boldsymbol{n} - 2 \cdot \Bbbk_2 - \Bbbk_1 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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

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

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

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

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

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

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$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

$D=\boldsymbol{n}<n \wedge \Bbbk=0 \wedge \boldsymbol{s}=s \vee I=\Bbbk \wedge s>1 \wedge \Bbbk>0 \wedge \boldsymbol{s}=s+\Bbbk \wedge \Bbbk_z{:}\, z=1 \Rightarrow$

$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

$D=\boldsymbol{n}<n \wedge \Bbbk=0 \wedge \boldsymbol{s}=s \vee I=\Bbbk \wedge s>1 \wedge \Bbbk>0 \wedge \boldsymbol{s}=s+\Bbbk \wedge \Bbbk_z{:}\, z=1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

$D=\boldsymbol{n}<n \wedge \Bbbk=0 \wedge \boldsymbol{s}=s \vee I=\Bbbk \wedge s>1 \wedge \Bbbk>0 \wedge \boldsymbol{s}=s+\Bbbk \wedge \Bbbk_z{:}\, z=1 \Rightarrow$

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$$\frac{\left(n_i + 2 \cdot j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - \mathbb{k}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + 2 \cdot j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s\right)!}$$

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

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

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

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

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

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

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

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$$S^{\dot{\mathrm{I}}SS} = (D - s)! \cdot \sum_{j_s = 1} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j_i = s)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_i+j_{ik}-j_i-\Bbbk-j_{sa}^{ik}\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}-j_i-j_{sa}^{ik}\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

$$S^{\text{İ}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_i+j_i+j_{sa}^{ik}-j_{ik}-2\cdot s-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_i+j_{sa}^{ik}-j_{ik}-2\cdot s\right)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \left(\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\right)_{j_i}$$

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

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

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

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

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \Bbbk - 2 \cdot j_{sa}^s + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1\right)!}$$

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

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

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_i + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s + 1\right)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

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

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$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \Bbbk - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

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$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot j_{sa}^{ik} - 1\right)!}$$

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$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

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

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

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

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

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$$S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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

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

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

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

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

$$S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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

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

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

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

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$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \lor$

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$$\frac{\left(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - \Bbbk_1 - \Bbbk_2\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j_i - 1 \lor$

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$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

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

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j_i - 1 \lor$

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

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

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

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

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

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(n_i - s - \Bbbk_1 - \Bbbk_2)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \Bbbk - 2 \cdot j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^{s} + 1\right)!}$$

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \Bbbk_1 - \Bbbk_2 - 2 \cdot j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^{s} + 1\right)!}$$

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

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$$\frac{\left(n_i + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s + 1\right)!}$$

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$$S^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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

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

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

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z\colon z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z\colon z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{\left(n_i + j_i + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - 1\right)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z\colon z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{\left(n_i + j_i + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk_1 - \Bbbk_2 - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - 1\right)!}$$

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

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

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{\left(n_i+j_{ik}+j_{sa}^{s}-j_s-2\cdot j_{sa}^{ik}-\Bbbk-1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}^{s}-j_s-2\cdot j_{sa}^{ik}-1\right)!}$$

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j_i-1\vee$

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$\Bbbk_z\colon z=1\wedge\Bbbk=\Bbbk_2\wedge j_{ik}=j_i-1\Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{\left(n_i+j_{ik}+j_{sa}^{s}-j_s-2\cdot j_{sa}^{ik}-\Bbbk_1-\Bbbk_2-1\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}^{s}-j_s-2\cdot j_{sa}^{ik}-1\right)!}$$

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j_i-1\vee$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{\left(n_i-\Bbbk-j_{sa}^{ik}-1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}-j_{sa}^{ik}-1\right)!}$$

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j_i-1\vee$

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$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z\colon z=1\wedge\Bbbk=\Bbbk_2\wedge j_{ik}=j_i-1\Rightarrow$

$$S^{\text{İ}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{\left(n_i-\Bbbk_1-\Bbbk_2-j_{sa}^{ik}-1\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}-j_{sa}^{ik}-1\right)!}$$

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j_i-1\vee$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

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

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j_i-1\vee$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

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

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land \boldsymbol{s} = s \lor I = \mathbb{k} \land s > 1 \land \mathbb{k} > 0 \land \boldsymbol{s} = s + \mathbb{k} \land \mathbb{k}_z : z = 1 \Rightarrow$

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

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

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

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land \boldsymbol{s} = s \land j_{ik} = j_i - 1 \lor$

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

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

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

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land \boldsymbol{s} = s \lor$

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$I = \mathbb{k} \land s > 1 \land \mathbb{k}_2 > 0 \land \mathbb{k}_1 = 0 \land \boldsymbol{s} = s + \mathbb{k} \land \mathbb{k}_z : z = 1 \land \mathbb{k} = \mathbb{k}_2 \Rightarrow$

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

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

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

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land \boldsymbol{s} = s \lor$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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$$\frac{(n_i + j_s - s - \Bbbk_1 - \Bbbk_2 - j_{sa}^s)!}{(n_i + j_s - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_{ik} + j_{sa}^{ik} - s - \Bbbk - j_{sa}^s\right)!}{(n_{ik} + j_{ik} - \boldsymbol{n} - \Bbbk - j_{sa}^s)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - s - j_{ik}\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z{:}\,z=1\wedge j_{ik}=j_i-1\Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z{:}\,z=1\wedge j_{ik}=j_i-1\Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_{ik}+j_{sa}^{ik}-s-\Bbbk-j_{sa}^{s}\right)!}{(n_{ik}+j_i-\boldsymbol{n}-\Bbbk-j_{sa}^{s}-1)!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j_i+1\right)!}$$

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z{:}\,z=1\wedge j_{ik}=j_i-1\Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

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

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

$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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

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

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

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

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

$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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

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

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

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

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

$$S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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

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$$\frac{(n_{ik} + j_{ik} + \Bbbk_1 - j_s - s - \Bbbk)!}{(n_{ik} + j_{ik} + \Bbbk_1 - \boldsymbol{n} - \Bbbk - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$\frac{\left(n_{ik} + j_{sa}^{ik} - s - \Bbbk_2 - j_{sa}^s\right)!}{(n_{ik} + j_{ik} - \boldsymbol{n} - \Bbbk_2 - j_{sa}^s)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - s - j_{ik}\right)!}$$

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$$\frac{\left(n_{ik} + j_{sa}^{ik} + \Bbbk_1 - s - \Bbbk - j_{sa}^s\right)!}{(n_{ik} + j_{ik} + \Bbbk_1 - \boldsymbol{n} - \Bbbk - j_{sa}^s)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - s - j_{ik}\right)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(2\cdot n_i - n_{ik} - j_s - j_{ik} - s - 2\cdot \Bbbk_1 - \Bbbk_2 + 2)!}{(2\cdot n_i - n_{ik} - j_{ik} - \boldsymbol{n} - 2\cdot \Bbbk_1 - \Bbbk_2 - j_{sa}^{s} + 2)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(n_{ik} + j_i - j_s - s - \Bbbk_2 - 1)!}{(n_{ik} + j_i - \boldsymbol{n} - \Bbbk_2 - j_{sa}^{s} - 1)!\cdot(\boldsymbol{n}-s)!}$$

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

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_{ik}+j_i+\Bbbk_1-j_s-s-\Bbbk-1)!}{(n_{ik}+j_i+\Bbbk_1-\boldsymbol{n}-\Bbbk-j_{sa}^s-1)!\cdot(\boldsymbol{n}-s)!}$$

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z{:}\,z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j_i-1\vee$

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$$\frac{\left(n_{ik}+j_{sa}^{ik}-s-\Bbbk_2-j_{sa}^s\right)!}{(n_{ik}+j_i-\boldsymbol{n}-\Bbbk_2-j_{sa}^s-1)!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j_i+1\right)!}$$

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$$\frac{\left(n_{ik}+j_{sa}^{ik}+\Bbbk_1-s-\Bbbk-j_{sa}^s\right)!}{(n_{ik}+j_i+\Bbbk_1-\boldsymbol{n}-\Bbbk-j_{sa}^s-1)!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j_i+1\right)!}$$

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

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$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_s - j_i - s - 2 \cdot \mathbb{k} + 3)!}{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_i - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} + 3)! \cdot (\boldsymbol{n} - s)!}$$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_s - j_i - s - 2 \cdot \Bbbk)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_i - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

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

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

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

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{(n_s+j_{ik}-j_s-s+1)!}{(n_s+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-s)!}$$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{(n_s-j_{sa}^{s})!}{(n_s+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-j_{ik}-1)!}$$

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

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$$\frac{(3\cdot n_i - n_{ik} - n_s - j_s - 2\cdot j_i - s - 2\cdot \Bbbk + 4)!}{(3\cdot n_i - n_{ik} - n_s - 2\cdot j_i - \boldsymbol{n} - 2\cdot \Bbbk - j_{sa}^{s} + 4)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j_i - 1 \lor$

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$$\frac{(3\cdot n_i - n_{ik} - n_s - j_s - 2\cdot j_{ik} - s - 2\cdot \Bbbk + 2)!}{(3\cdot n_i - n_{ik} - n_s - 2\cdot j_{ik} - \boldsymbol{n} - 2\cdot \Bbbk - j_{sa}^{s} + 2)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j_i - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \land j_{ik} = j_i - 1 \Rightarrow$

$$S^{\dot{\mathrm{I}}ss} = (D-s)!\cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

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$$\frac{(3\cdot n_i + 2\cdot j_s - n_{ik} - n_s - 2\cdot j_i - s - 2\cdot \Bbbk + 1)!}{(3\cdot n_i + 3\cdot j_s - n_{ik} - n_s - 2\cdot j_i - \boldsymbol{n} - 2\cdot \Bbbk)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j_i - 1 \lor$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z\colon z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

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

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

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z\colon z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z\colon z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\boldsymbol{n}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\wedge\Bbbk=\Bbbk_2\Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_s-j_{sa}^{s})!}{(n_s+j_i-\boldsymbol{n}-j_{sa}^{s})!\cdot(\boldsymbol{n}-j_i)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\wedge\Bbbk=\Bbbk_2\Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2\cdot n_i-n_s-j_s-j_i-s-2\cdot\Bbbk_1-2\cdot\Bbbk_2+2)!}{(2\cdot n_i-n_s-j_i-\boldsymbol{n}-2\cdot\Bbbk_1-2\cdot\Bbbk_2-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\wedge\Bbbk=\Bbbk_2\Rightarrow$

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$$S^{\dot{I}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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

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

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

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

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

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$$S^{\dot{I}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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

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

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$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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

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

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

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

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

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$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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

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

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

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$$S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-j_{ik}-j_i-s-2\cdot\mathbb{k}-\mathbb{k}_1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-j_{ik}-j_i-\boldsymbol{n}-2\cdot\mathbb{k}-\mathbb{k}_1-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

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

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

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

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

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$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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

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

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

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$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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

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

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

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

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

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

$$S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

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

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z: z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2 \cdot n_i - n_s - j_s - j_{ik} - s - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 1)!}{(2 \cdot n_i - n_s - j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - j_{sa}^s + 1)! \cdot (\boldsymbol{n} - s)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z: z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

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

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z{:}\,z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j_i-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge$

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$$S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-2\cdot j_i-s-3\cdot\Bbbk_1-2\cdot\Bbbk_2+4)!}{(3\cdot n_i-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-3\cdot\Bbbk_1-2\cdot\Bbbk_2-j_{sa}^{s}+4)!\cdot(\boldsymbol{n}-s)!}$$

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z{:}\,z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j_i-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_i - s - 2 \cdot \Bbbk - \Bbbk_1 + 4)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_i - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1 - j_{sa}^{s} + 4)! \cdot (\boldsymbol{n} - s)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_{ik} - s - 2 \cdot \Bbbk - \Bbbk_1 + 2)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1 - j_{sa}^{s} + 2)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - \boldsymbol{n} - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - \boldsymbol{n} - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 2 \cdot \Bbbk - \Bbbk_1 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot \Bbbk - \Bbbk_1 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1 - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

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$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

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$$\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \Bbbk_1 - n_s - j_s - s - 2 \cdot \Bbbk - 1)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \Bbbk_1 - n_s - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_i + n_{ik} - n_s - s - 2 \cdot \Bbbk_2 - \Bbbk_1 - 1)!}{(n_i + n_{ik} + j_s - n_s - \boldsymbol{n} - 2 \cdot \Bbbk_2 - \Bbbk_1 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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

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

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

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

$$S^{\dot{\imath}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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

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

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

$$S^{\dot{\imath}ss} = \prod_{z=3}^{s} \sum_{((j_i)_1=2)}^{(\ )} \sum_{(j_{ik})_{z-1}=z-1} \sum_{((j_i)_{z-1}=z \vee z=s \Rightarrow s)}^{(\ )}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{\left((n_{ik})_1=n_i-(j_i)_1-\sum_{i=1}\mathbb{k}_i+1\right)}^{(\ )}$$

$$\sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}\mathbb{k}_i}$$

$$\sum_{\left((n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}\mathbb{k}_i\right)}^{(\ )}$$

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

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

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

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

$$\frac{((n_s)_{z=s}-1)!}{((n_s)_{z=s}+(j_i)_{z=s}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-(j_i)_{z=s})!}$$

***Örnek D42;*** *DNA kopyalanmasında Helikalas proteini, kopyalanma çatalında ikili sarmalı tersine döndürerek eski iki zincire ayırır. 100 genden oluşan özel bir DNA'nın bir geninin bir ipliği adenin (A), guanin (G) ve sitozinin (C) farklı dizilimi ve beş timinin (T) bu üç azotlu bazın olasılık dağılımlarına bağımsız olasılıkla dağılımından oluşsun. Bir iplikteki AGC simetrisi kopyalanma çatalı olsun. Helikalas proteini kopyalanma çatalının timinle başlayıp ilk farklı dizilimli azotlu bazı adenin olan dağılımlarda ve adenin ile başlayan dağılımlardaki düzgün simetrik yapılar kopyalanma hatası oluşturması durumunda, DNA'daki kopyalanma hatası ne kadardır?*

$DNA=100\ gen, her\ gen\ için\ D=3, n=8, \imath=5\ ve\ s=3 \Rightarrow$

$S^{\dot{I}SS}=?\ ve\ S^{\dot{I}SS}\cdot 100=?$

*2. seviyeden soru ve 1. seviden problem*

$$S^{\dot{I}SS}=\frac{(n-s+1)!}{\imath!\cdot(n-\imath-s+1)}$$

$$S^{\dot{I}SS}=\frac{(8-3+1)!}{5!\cdot(8-5-3+1)}$$

$$S^{\dot{I}SS}=6$$

*bir gende altı kopyalanma hatası olabilecek kopyalanma çatalı bulunur, DNA'da ise,*

$$S^{\dot{I}SS}\cdot 100=6\cdot 100=600$$

*helikalas proteinin kopyalanma hatası oluşturabileceği altı yüz kopyalanma çatalı bulunur.*

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# BAĞIMSIZ DURUMLA BAŞLAYAN DAĞILIMLARDA BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİ

Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde $\{1, 2, 3, 4, 5\}$ veya $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$, bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin başladığı bağımlı durum bulunan dağılımlardaki düzgün simetrik olasılıklar; simetri bağımlı durumlardan oluştuğundaki ilk düzgün simetrik olasılık eşitliğinin olay ve bağımsız durumlu olay sayısının bir eksiğiyle hesaplanabilir. Simetri bağımlı durumlardan oluştuğunda $\{1, 2, 3, 4, 5\}$, son olayı bağımsız durumla başlayıp sonraki ilk bağımlı durumu, simetrinin ilk durumu olan dağılımlardaki, düzgün simetrik olasılıklar için;

$$S_0^{\dot{I}ss} = S_{n-1,\imath-1}^{\dot{I}ss}$$

ilk düzdün simetrik olasılık eşitliğinde $n$ yerine $n-1$ ve ı yerine de $\imath - 1$ yazıldığında,

$$S_0^{\dot{I}ss} = \frac{\big((n-1) - s + 1\big)!}{(\imath - 1)! \cdot (D - s + 1)}$$

$$S_0^{\dot{I}ss} = \frac{(n-s)!}{(\imath - 1)! \cdot (D - s + 1)}$$

veya

$$S_0^{\dot{I}ss} = S_{n-1,\imath-1}^{\dot{I}ss}$$

$$S_0^{\dot{I}ss} = \frac{\big((n-1) - s + 1\big)!}{(\imath - 1)! \cdot \big((n-1) - (\imath - 1)\ - s + 1\big)}$$

$$S_0^{\dot{I}ss} = \frac{(n-s)!}{(\imath - 1)! \cdot (n - \imath\ - s + 1)}$$

veya

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

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

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

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

$$S_0^{\text{İ}SS} = \ S_{n-1,\iota-1}^{\text{İ}SS}$$

ve eşitliğin sağındaki ilk düzgün simetrik olasılık eşitliğinde $n$ yerine $n-1$ ve $\iota$ yerinede $\iota - 1$ yazıldığında,

$$S_0^{\text{İ}SS} = \frac{\big((n-1) - \boldsymbol{s} + 1\big)!}{\big((\iota - 1) - I\big)! \cdot (D + I - \boldsymbol{s} + 1)}$$

$$S_0^{\text{İ}SS} = \frac{(n - \boldsymbol{s})!}{(\iota - I - 1)! \cdot (D + I - \boldsymbol{s} + 1)}$$

ve $\boldsymbol{s} = s + I$ olacağından,

$$S_0^{\text{İ}SS} = \frac{(n - s - I)!}{(\iota - I - 1)! \cdot (D - s + 1)}$$

veya $S_0^{\text{İ}SS} = \ S_{n-1,\iota-1}^{\text{İ}SS}$ eşitliğin sağındaki ilk düzgün simetrik olasılık eşitliğinde $n$ yerine $n-1$ ve $\iota$ yerinede $\iota - 1$ yazıldığında,

$$S_0^{\text{İ}SS} = \frac{\big((n-1) - \boldsymbol{s} + 1\big)!}{\big((\iota - 1) - I\big)! \cdot \big((n-1) - (\iota - 1) + I - \boldsymbol{s} + 1\big)}$$

$$S_0^{\text{İ}SS} = \frac{(n - \boldsymbol{s})!}{(\iota - I - 1)! \cdot (n + I - \iota - \boldsymbol{s} + 1)}$$

ve $\boldsymbol{s} = s + I$ olacağından,

$$S_0^{\text{İ}SS} = \frac{(n - s - I)!}{(\iota - I - 1)! \cdot (n - \iota - s + 1)}$$

veya

$$S_0^{\text{İ}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{n-1} \sum_{n_s=n_i-s-\Bbbk+1} \frac{(n_s - 1)!}{(n_s + j_i - D - 1)! \cdot (D - j_i)!}$$

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

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

veya $D$ yerine $\boldsymbol{n}$ yazıldığında,

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

veya

$$S_0^{\text{iss}} = \prod_{z=3}^{s} \sum_{((j_i)_1=2)}^{(\ )} \sum_{(j_{ik})_{z-1}=z-1} \sum_{((j_i)_{z-1}=z \vee z=s \Rightarrow s)}^{(\ )} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n-1} \sum_{\left((n_{ik})_1=n_i-(j_i)_1-\sum_{i=1}\Bbbk_i+1\right)}^{(\ )} \sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}\Bbbk_i} \sum_{\left((n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}\Bbbk_i\right)}^{(\ )}$$

$$\frac{(D-s)!}{(D-s-(j_i)_1+2)!} \cdot \frac{\left(D-s-\left(j_{ik}-j_{sa}^{ik}\right)_{z-1}\right)!}{\left(D-s-(j_i)_{z-1}+(j_{ik})_{z-1}-\left(j_{ik}-j_{sa}^{ik}\right)_{z-1}+1\right)!} \cdot \frac{(D-(j_i)_{z=s})!}{(D-\boldsymbol{n})!} \cdot \frac{(n_i-(n_{ik})_1-1)!}{((j_i)_1-2)! \cdot (n_i-(n_{ik})_1-(j_i)_1+1)!}.$$

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

$$\frac{((n_s)_{z=s}-1)!}{((n_s)_{z=s}+(j_i)_{z=s}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-(j_i)_{z=s})!}$$

eşitlikleriyle hesaplanabilir. Bu eşitliklere bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli olasılık dağılımlarında, simetri bağımlı durumla başlayıp bağımlı durumla bittiğinde; bağımsız durumla başlayıp sonra simetrinin ilk bağımlı durumu bulunan dağılımlarda, düzgün simetrik durumların bulunduğu dağılımların sayısına ***bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik olasılık*** denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik olasılık $S_0^{\dot{I}ss}$ ile gösterilecektir.

Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde, bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardan, bağımsız durumla başlayıp sonra simetrinin ilk bağımlı durumu bulunan dağılımlardaki düzgün simetrik olasılığın, ilk düzgün simetrik olasılığın eşitlikleriyle ilişkisi kurulabilir. Bağımsız durumla başlayıp sonra simetrinin ilk bağımlı durumu bulunan ve simetrinin ilk bağımlı durumu bulunan dağılımlardaki ilk düzgün simetrik olasılığın,

$$S^{\dot{I}ss}=\frac{(n-s-I+1)!}{(\iota-I)!\cdot(D-s+1)}$$

eşitliğiyle, bağımsız durumla başlayıp sonra simetrinin ilk bağımlı durumu bulunan dağılımlardaki düzgün simetrik olasılığın,

$$S_0^{\dot{I}ss}=\frac{(n-s-I)!}{(\iota-I-1)!\cdot(D-s+1)}$$

eşitliğiyle simetrisiyle ilişkisi kurulabilir. Bunun için

$$S_0^{\dot{I}ss}=\frac{(n-s-I)!}{(\iota-I-1)!\cdot(D-s+1)}$$

eşitliğinde,

$$S_0^{\dot{I}ss}=\frac{(n-s-I+1)!}{(\iota-I)!\cdot(D-s+1)}\cdot\frac{(\iota-I)}{(n-s-I+1)}$$

düzenlemesi yapıldığında eşitliğin sağındaki ilk terim $S^{\dot{I}ss}=\frac{(n-s-I+1)!}{(\iota-I)!\cdot(D-s+1)}$ olacağından, bağımsız durumla başlayıp sonra simetrinin ilk bağımlı durumu bulunan dağılımlardaki düzgün simetrik olasılıkların, ilk düzgün simetrik olasılığıyla ilişkisi için

$$S_0^{\dot{I}ss}=S^{\dot{I}ss}\cdot\frac{(\iota-I)}{(n-s-I+1)}$$

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ve $S^{\text{İ}ss} = S \cdot \frac{s! \cdot (s+\imath)!}{n! \cdot (s+\imath-I)!} \cdot \frac{(n-s-I+1)!}{(D-s+1)}$

$$S_0^{\text{İ}ss} = S \cdot \frac{s! \cdot (s+\imath)!}{n! \cdot (s+\imath-I)!} \cdot \frac{(n-s-I)! \cdot (\imath - I)}{(D-s+1)}$$

veya

$$^0S_0^{\text{İ}ss} = \ ^0S^{\text{İ}ss} \cdot \frac{(\imath - I)}{(n-s-I+1)}$$

ve $^0S^{\text{İ}ss} = \ ^0S \cdot \frac{s! \cdot (s+\imath)!}{n! \cdot (s+\imath-I)!} \cdot \frac{(n-s-I+1)!}{(D-s+1)}$

$$^0S_0^{\text{İ}ss} = \ ^0S \cdot \frac{s! \cdot (s+\imath)!}{n! \cdot (s+\imath-I)!} \cdot \frac{(n-s-I)! \cdot (\imath - I)}{(D-s+1)}$$

ve

$$S_D^{\text{İ}ss} = \ S^{\text{İ}ss} \cdot \frac{n-\imath-s+1}{n-s-I+1}$$

ve $S^{\text{İ}ss} = S \cdot \frac{s! \cdot (s+\imath)!}{n! \cdot (s+\imath-I)!} \cdot \frac{(n-s-I+1)!}{(D-s+1)}$

$$S_D^{\text{İ}ss} = S \cdot \frac{s! \cdot (s+\imath)! \cdot (n-s-I)!}{n! \cdot (s+\imath-I)!}$$

veya

$$^0S_D^{\text{İ}ss} = \ ^0S^{\text{İ}ss} \cdot \frac{n-\imath-s+1}{n-s-I+1}$$

ve $^0S^{\text{İ}ss} = \ ^0S \cdot \frac{s! \cdot (s+\imath)!}{n! \cdot (s+\imath-I)!} \cdot \frac{(n-s-I+1)!}{(D-s+1)}$

$$^0S_D^{\text{İ}ss} = \ ^0S \cdot \frac{s! \cdot (s+\imath)! \cdot (n-s-I)!}{n! \cdot (s+\imath-I)!}$$

eşitlikleriyle verilir.

$D = \boldsymbol{n} < n \wedge I = \Bbbk = 0 \wedge \boldsymbol{s} = s \Rightarrow$

$$S_0^{\text{İ}ss} = \frac{(n-s)!}{(\imath-1)! \cdot (D-s+1)}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk = 0 \wedge \boldsymbol{s} = s \Rightarrow$

$$S_0^{\text{İ}ss} = \frac{(n-s)!}{(\imath-1)! \cdot (n-\imath-s+1)}$$

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$D = \boldsymbol{n} < n \wedge I = \Bbbk = 0 \wedge \boldsymbol{s} = s \Rightarrow$

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

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \Rightarrow$

$$S_0^{\text{İ}ss} = \frac{(n-\boldsymbol{s})!}{(\imath - I - 1)! \cdot (D + I - \boldsymbol{s} + 1)}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \Rightarrow$

$$S_0^{\text{İ}ss} = \frac{(n-s-I)!}{(\imath - I - 1)! \cdot (D - s + 1)}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \Rightarrow$

$$S_0^{\text{İ}ss} = \frac{(n-\boldsymbol{s})!}{(\imath - I - 1)! \cdot (n + I - \imath - \boldsymbol{s} + 1)}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \Rightarrow$

$$S_0^{\text{İ}ss} = \frac{(n-s-I)!}{(\imath - I - 1)! \cdot (n - \imath - s + 1)}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk \wedge \Bbbk_z : z \geq 1 \Rightarrow$

$$S_0^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{n-1} \sum_{n_s=n_i-s-\Bbbk+1} \frac{(n_i-s-\Bbbk)!}{(n_i-D-\Bbbk)! \cdot (D-s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk \wedge \Bbbk_z : z \geq 1 \Rightarrow$

$$S_0^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{n-1} \sum_{n_s=n_i-s-\Bbbk+1} \frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$S_0^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1} \frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_0^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_0^{\dot{I}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1} \frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_0^{\dot{I}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-s)!}$$

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

$$S_0^{\dot{I}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1} \frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}-s)!}$$

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

$$S_0^{\dot{I}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1}$$

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

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

$$S_0^{\text{İ}ss}=(D-s)!\cdot\sum_{j^{sa}=j_{sa}}\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)}\sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1}$$

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

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

$$S_0^{\text{İ}ss}=(D-s)!\cdot\sum_{j^{sa}=j_{sa}}\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)}\sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1}$$

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

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

$$S_0^{\text{İ}ss}=(D-s)!\cdot\sum_{j^{sa}=j_{sa}}\sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n-1}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

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

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

$$S_0^{\text{İ}ss}=(D-s)!\cdot\sum_{j^{sa}=j_{sa}}\sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n-1}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

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

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

$$S_0^{\text{İ}ss}=(D-s)!\cdot\sum_{j^{sa}=j_{sa}}\sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)}\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n-1}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

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

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

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$$S_0^{\text{İ}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n-1} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}-s)!}$$

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

$$S_0^{\text{İ}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n-1} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-s)!}$$

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

$$S_0^{\text{İ}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n-1} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_{ik}+j_{ik}-s-\Bbbk-1)!}{(n_{ik}+j_{ik}-\boldsymbol{n}-\Bbbk-1)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_0^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_0^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

$$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$$

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

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

$$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$$

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

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - \Bbbk - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^{s}\right)!}$$

$$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$$

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

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

$$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$$

$$S_0^{\text{İ}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

$$\frac{\left(n_i + 2\cdot j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 2\cdot j_{sa} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)!\cdot\left(\boldsymbol{n} + 2\cdot j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 2\cdot j_{sa} - s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_0^{\dot{I}SS} = (D-s)!\cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \Bbbk - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)!\cdot\left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)!\cdot\left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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

$$\frac{\left(n_i + 2\cdot j_{ik} + j_{sa}^{s} + j_{sa} - j_s - j^{sa} - 2\cdot j_{sa}^{ik} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)!\cdot\left(\boldsymbol{n} + 2\cdot j_{ik} + j_{sa}^{s} + j_{sa} - j_s - j^{sa} - 2\cdot j_{sa}^{ik} - s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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

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

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

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

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

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

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

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

$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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

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

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$$S_0^{\mathrm{i}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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

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

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$$S_0^{\mathrm{i}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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

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

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$$S_0^{\mathrm{i}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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

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

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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

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

$$\frac{\left(n_i + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1\right)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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

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

$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \Bbbk - j_{sa}^s\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^s\right)!}$$

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

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

$$\frac{\left(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \Bbbk - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1\right)!}$$

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_0^{İss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - \Bbbk - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^s + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1\right)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_0^{İss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i + j_{sa} - s - \Bbbk - j_{sa}^{ik} - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{sa} - s - j_{sa}^{ik} - 1\right)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_0^{İss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i + j_{sa}^{ik} - j_{sa} - s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - j_{sa} - s + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

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$$S_0^{\text{İ}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

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

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

$I=\mathbb{k} \wedge s>1 \wedge \mathbb{k}_2>0 \wedge \mathbb{k}_1=0 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge \mathbb{k}_z\colon z=1 \wedge \mathbb{k}=\mathbb{k}_2 \Rightarrow$

$$S_0^{\text{İ}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

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

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

$I=\mathbb{k} \wedge s>1 \wedge \mathbb{k}_2>0 \wedge \mathbb{k}_1=0 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge \mathbb{k}_z\colon z=1 \wedge \mathbb{k}=\mathbb{k}_2 \Rightarrow$

$$S_0^{\text{İ}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

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

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S_0^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_i - s - \Bbbk_1 - \Bbbk_2)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S_0^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

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

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

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

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

$$S_0^{\dot{\text{I}}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

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

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

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

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

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

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

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

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

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

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \frac{(n_i - s - \Bbbk_1 - \Bbbk_2)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \Bbbk - 2 \cdot j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^{s} + 1\right)!}$$

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

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

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

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

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$$S_0^{\dot{I}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \frac{\left(n_i + j_{sa}^{ik} - j_{sa} - s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - j_{sa} - s + 1\right)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_0^{\dot{I}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

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

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

$$S_0^{\text{İ}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

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

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

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$$S_0^{\text{İ}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

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$$S_0^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_i + j_s - s - \Bbbk_1 - \Bbbk_2 - j_{sa}^s)!}{(n_i + j_s - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\frac{(n_i + j_s - s - \Bbbk - j_{sa}^s)!}{(n_i + j_s - \boldsymbol{n} - \Bbbk - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

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

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$$S_0^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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

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

$$S_0^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

$$S_0^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$\frac{\left(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s\right)!}{(n_{ik} + j_{ik} - \boldsymbol{n} - \mathbb{k} - j_{sa}^s)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - s - j_{ik}\right)!}$$

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

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

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

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

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z{:}\,z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$S_0^{\text{İ}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

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

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

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_{ik}+j_{sa}^{ik}-s-\Bbbk-j_{sa}^{s}\right)!}{(n_{ik}+j^{sa}-\boldsymbol{n}-\Bbbk-j_{sa}^{s}-1)!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j^{sa}+1\right)!}$$

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

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

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

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

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

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$$\frac{(n_{ik} + j_{ik} + \Bbbk_1 - j_s - s - \Bbbk)!}{(n_{ik} + j_{ik} + \Bbbk_1 - \boldsymbol{n} - \Bbbk - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$\frac{\left(n_{ik} + j_{sa}^{ik} + \Bbbk_1 - s - \Bbbk - j_{sa}^{s}\right)!}{(n_{ik} + j_{ik} + \Bbbk_1 - \boldsymbol{n} - \Bbbk - j_{sa}^{s})! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - s - j_{ik}\right)!}$$

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

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

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

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

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

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

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

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

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

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

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$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_{ik}+j^{sa}+\mathbb{k}_1-j_s-s-\mathbb{k}-1)!}{(n_{ik}+j^{sa}+\mathbb{k}_1-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s}-1)! \cdot (\boldsymbol{n}-s)!}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

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

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

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

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

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land \boldsymbol{s} = s \lor$

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$I = \mathbb{k} \land s > 1 \land \mathbb{k}_2 > 0 \land \mathbb{k}_1 = 0 \land \boldsymbol{s} = s + \mathbb{k} \land \mathbb{k}_z : z = 1 \land \mathbb{k} = \mathbb{k}_2 \Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

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$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

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

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

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

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j^{sa} - s - 2 \cdot \Bbbk - \Bbbk_1 + 4)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1 - j_{sa}^s + 4)! \cdot (\boldsymbol{n} - s)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_0^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j_{ik} - s - 2 \cdot \Bbbk - \Bbbk_1 + 2)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1 - j_{sa}^s + 2)! \cdot (\boldsymbol{n} - s)!}$$

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

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$$S_0^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(2 \cdot n_i + j_s - n_{sa} - j_{ik} - s - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

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

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

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

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

$$S_0^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(2 \cdot n_i + j_s - n_{sa} - j_{ik} - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j_{ik} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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

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$$S_0^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \boldsymbol{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2)! \cdot (\boldsymbol{n} - s)!}$$

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

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

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

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - s - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - \boldsymbol{n} - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - s - 2 \cdot \Bbbk - \Bbbk_1 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1)! \cdot (\boldsymbol{n} - s)!}$$

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

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - s - 2 \cdot \Bbbk - \Bbbk_1 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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

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

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

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

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$$\frac{(n_i + n_{ik} + \Bbbk_1 - n_{sa} - s - 2 \cdot \Bbbk - 1)!}{(n_i + n_{ik} + j_s + \Bbbk_1 - n_{sa} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z{:}\, z = 1 \Rightarrow$

$$S_0^{\text{İ}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z{:}\, z = 1 \Rightarrow$

$$S_0^{\text{İ}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z{:}\, z = 1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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$$\frac{\left(n_i + 2 \cdot j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - \mathbb{k}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + 2 \cdot j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s\right)!}$$

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

$$S_0^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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

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

$$S_0^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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

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

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

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

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

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

$$S_0^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_i+j_{ik}-j_i-\Bbbk-j_{sa}^{ik}\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}-j_i-j_{sa}^{ik}\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_i+j_i+j_{sa}^{ik}-j_{ik}-2\cdot s-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_i+j_{sa}^{ik}-j_{ik}-2\cdot s\right)!}$$

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

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\wedge j_{ik}=j_i-1\Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \left(\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\right)_{j_i}$$

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

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\dot{I}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \Bbbk - 2 \cdot j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^{s} + 1\right)!}$$

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

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

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z \colon z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

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$$\frac{\left(n_i + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s + 1\right)!}$$

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

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \Bbbk - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

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

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$$S_0^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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$$\frac{\left(n_i + j_i + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - 1\right)!}$$

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

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$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{(n_i + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot j_{sa}^{ik} - \Bbbk - 1)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot j_{sa}^{ik} - 1)!}$$

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

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$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{(n_i - \Bbbk - j_{sa}^{ik} - 1)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - j_{sa}^{ik} - 1)!}$$

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

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

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

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

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

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_i - s - \Bbbk_1 - \Bbbk_2)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$\frac{(n_i + j_s - j_i - \Bbbk_1 - \Bbbk_2 - j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} + j_s - j_i - j_{sa}^s)!}$$

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

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-2\cdot j_{sa}^{s}\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^{s}\right)!}$$

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

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

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

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

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

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

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$$S_0^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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

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

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

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

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{\left(n_i+2\cdot j_{ik}+j_{sa}^{s}-j_s-j_i-2\cdot j_{sa}^{ik}-\Bbbk_1-\Bbbk_2\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+2\cdot j_{ik}+j_{sa}^{s}-j_s-j_i-2\cdot j_{sa}^{ik}\right)!}$$

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

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

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

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

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

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$\Bbbk_z: z = 1 \land \Bbbk = \Bbbk_2 \land j_{ik} = j_i - 1 \Rightarrow$

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

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

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

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

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

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$$S_0^{\dot{\mathrm{I}}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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$$\frac{\left(n_i + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s - \Bbbk_1 - \Bbbk_2 + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s + 1\right)!}$$

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$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_i - s - \Bbbk - j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^{s} + 1\right)!}$$

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

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$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_i - s - \Bbbk_1 - \Bbbk_2 - j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^{s} + 1\right)!}$$

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

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$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

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

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{\left(n_i + j_i + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - 1\right)!}$$

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$$\frac{\left(n_i + j_i + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk_1 - \Bbbk_2 - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - 1\right)!}$$

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

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

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

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

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

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

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

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

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

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

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

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

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

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$$\frac{(n_i + j_s - s - \Bbbk_1 - \Bbbk_2 - j_{sa}^s)!}{(n_i + j_s - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

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

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_{ik} + j_{sa}^{ik} - s - \Bbbk - j_{sa}^s\right)!}{(n_{ik} + j_{ik} - \boldsymbol{n} - \Bbbk - j_{sa}^s)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - s - j_{ik}\right)!}$$

$$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$$

$$S_0^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

$$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$$

$$S_0^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{(2\cdot n_i + j_s - n_{ik} - j_{ik} - s - \Bbbk)!}{(2\cdot n_i + 2\cdot j_s - n_{ik} - j_{ik} - \boldsymbol{n} - \Bbbk - j_{sa}^{s})!\cdot(\boldsymbol{n} + j_{sa}^{s} - s - j_s)!}$$

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

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z\!: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\dot{\imath}ss} = (D-s)!\cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{(n_{ik} + j_i - j_s - s - \Bbbk - 1)!}{(n_{ik} + j_i - \boldsymbol{n} - \Bbbk - j_{sa}^{s} - 1)!\cdot(\boldsymbol{n} - s)!}$$

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

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$$S_0^{\dot{\imath}ss} = (D-s)!\cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_{ik} + j_{sa}^{ik} - s - \Bbbk - j_{sa}^{s}\right)!}{(n_{ik} + j_i - \boldsymbol{n} - \Bbbk - j_{sa}^{s} - 1)!\cdot\left(\boldsymbol{n} + j_{sa}^{ik} - s - j_i + 1\right)!}$$

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

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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

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

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

$$S_0^{\text{İ}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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

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

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

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

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

$$S_0^{\text{İ}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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

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

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

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

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

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

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

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

$$S_0^{\dot{I}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

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

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

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

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

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

$$S_0^{\dot{I}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

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

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

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

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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

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$\Bbbk_z\!: z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\text{İ}SS} = (D-s)!\cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(n_{ik} + j_i - j_s - s - \Bbbk_2 - 1)!}{(n_{ik} + j_i - \boldsymbol{n} - \Bbbk_2 - j_{sa}^{s} - 1)!\cdot(\boldsymbol{n}-s)!}$$

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

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

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

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

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

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

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

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

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

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$$S_0^{\text{İ}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(2 \cdot n_i - n_{ik} - j_s - j_i - s - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 + 3)!}{(2 \cdot n_i - n_{ik} - j_i - \boldsymbol{n} - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s + 3)! \cdot (\boldsymbol{n} - s)!}$$

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

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$$S_0^{\text{İ}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_s - j_i - s - 2 \cdot \mathbb{k} + 3)!}{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_i - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 3)! \cdot (\boldsymbol{n} - s)!}$$

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

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

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

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

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

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_i - \boldsymbol{n} - j_{sa}^s)! \cdot (\boldsymbol{n} - j_i)!}$$

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

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

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

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

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

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

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

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

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

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$$\frac{(2\cdot n_i+j_s-n_s-j_i-s-2\cdot\mathbb{k})!}{(2\cdot n_i+2\cdot j_s-n_s-j_i-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\land\mathbb{k}=0\land\boldsymbol{s}=s\lor I=\mathbb{k}\land s>1\land\mathbb{k}>0\land\boldsymbol{s}=s+\mathbb{k}\land\mathbb{k}_z\colon z=1\Rightarrow$

$$S_0^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-j_{ik}-j_i-s-2\cdot\mathbb{k})!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-j_{ik}-j_i-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\land\mathbb{k}=0\land\boldsymbol{s}=s\lor I=\mathbb{k}\land s>1\land\mathbb{k}>0\land\boldsymbol{s}=s+\mathbb{k}\land\mathbb{k}_z\colon z=1\Rightarrow$

$$S_0^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(2\cdot n_{ik}+2\cdot j_{ik}-n_s-j_s-j_i-s-2\cdot\mathbb{k})!}{(2\cdot n_{ik}+2\cdot j_{ik}-n_s-j_i-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\land\mathbb{k}=0\land\boldsymbol{s}=s\lor I=\mathbb{k}\land s>1\land\mathbb{k}>0\land\boldsymbol{s}=s+\mathbb{k}\land\mathbb{k}_z\colon z=1\Rightarrow$

$$S_0^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i+n_{ik}+j_{ik}-n_s-j_i-s-2\cdot\mathbb{k})!}{(n_i+n_{ik}+j_s+j_{ik}-n_s-j_i-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\land\mathbb{k}=0\land\boldsymbol{s}=s\land j_{ik}=j_i-1\lor$

$I=\mathbb{k}\land s>1\land\mathbb{k}>0\land\boldsymbol{s}=s+\mathbb{k}\land\mathbb{k}_z\colon z=1\land j_{ik}=j_i-1\Rightarrow$

$$S_0^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{(n_s+j_{ik}-j_s-s+1)!}{(n_s+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z\!: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\text{İ}ss} = (D-s)!\cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{(n_s-j_{sa}^{s})!}{(n_s+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-j_{ik}-1)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z\!: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\text{İ}ss} = (D-s)!\cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{(2\cdot n_i-n_s-j_s-j_{ik}-s-2\cdot\Bbbk+1)!}{(2\cdot n_i-n_s-j_{ik}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z\!: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\text{İ}ss} = (D-s)!\cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-2\cdot j_i-s-2\cdot\Bbbk+4)!}{(3\cdot n_i-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s}+4)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z{:}\,z=1\wedge j_{ik}=j_i-1\Rightarrow$

$$S_0^{\text{İ}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-2\cdot j_{ik}-s-2\cdot\Bbbk+2)!}{(3\cdot n_i-n_{ik}-n_s-2\cdot j_{ik}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z{:}\,z=1\wedge j_{ik}=j_i-1\Rightarrow$

$$S_0^{\text{İ}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(2\cdot n_i+j_s-n_s-j_{ik}-s-2\cdot\Bbbk-1)!}{(2\cdot n_i+2\cdot j_s-n_s-j_{ik}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z{:}\,z=1\wedge j_{ik}=j_i-1\Rightarrow$

$$S_0^{\text{İ}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-2\cdot j_i-s-2\cdot\Bbbk+1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-2\cdot\Bbbk)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\text{iss}} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(3\cdot n_i + 2\cdot j_s - n_{ik} - n_s - 2\cdot j_{ik} - s - 2\cdot\Bbbk - 1)!}{(3\cdot n_i + 3\cdot j_s - n_{ik} - n_s - 2\cdot j_{ik} - \boldsymbol{n} - 2\cdot\Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\text{iss}} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(2\cdot n_{ik} + j_{ik} - n_s - j_s - s - 2\cdot\Bbbk - 1)!}{(2\cdot n_{ik} + j_{ik} - n_s - \boldsymbol{n} - 2\cdot\Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\text{iss}} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(n_i + n_{ik} - n_s - s - 2\cdot\Bbbk - 1)!}{(n_i + n_{ik} + j_s - n_s - \boldsymbol{n} - 2\cdot\Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

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$$S_0^{İSS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\boldsymbol{n}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=1\wedge\mathbb{k}=\mathbb{k}_2\Rightarrow$

$$S_0^{İSS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_s-j_{sa}^{s})!}{(n_s+j_i-\boldsymbol{n}-j_{sa}^{s})!\cdot(\boldsymbol{n}-j_i)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=1\wedge\mathbb{k}=\mathbb{k}_2\Rightarrow$

$$S_0^{İSS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2\cdot n_i-n_s-j_s-j_i-s-2\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2+2)!}{(2\cdot n_i-n_s-j_i-\boldsymbol{n}-2\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=1\wedge\mathbb{k}=\mathbb{k}_2\Rightarrow$

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$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \Bbbk + 2)!}{(2 \cdot n_i - n_s - j_i - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^s + 2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - \boldsymbol{n} - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - j_{sa}^s + 3)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 2 \cdot \Bbbk - \Bbbk_1 + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1 - j_{sa}^s + 3)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

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$$S_0^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(2\cdot n_i + j_s - n_s - j_i - s - 2\cdot\Bbbk_1 - 2\cdot\Bbbk_2)!}{(2\cdot n_i + 2\cdot j_s - n_s - j_i - \boldsymbol{n} - 2\cdot\Bbbk_1 - 2\cdot\Bbbk_2 - j_{sa}^{s})! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S_0^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(2\cdot n_i + j_s - n_s - j_i - s - 2\cdot\Bbbk)!}{(2\cdot n_i + 2\cdot j_s - n_s - j_i - \boldsymbol{n} - 2\cdot\Bbbk - j_{sa}^{s})! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S_0^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(3\cdot n_i + 2\cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 3\cdot\Bbbk_1 - 2\cdot\Bbbk_2)!}{(3\cdot n_i + 3\cdot j_s - n_{ik} - n_s - j_{ik} - j_i - \boldsymbol{n} - 3\cdot\Bbbk_1 - 2\cdot\Bbbk_2 - j_{sa}^{s})! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

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$$S_0^{\text{İ}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot \Bbbk - \Bbbk_1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1 - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S_0^{\text{İ}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_s - j_i - s - 2 \cdot \Bbbk_2)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_i - \boldsymbol{n} - 2 \cdot \Bbbk_2 - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S_0^{\text{İ}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \Bbbk_1 - n_s - j_s - j_i - s - 2 \cdot \Bbbk)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \Bbbk_1 - n_s - j_i - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

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$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_i+n_{ik}+j_{ik}-n_s-j_i-s-2\cdot\mathbb{k}_2-\mathbb{k}_1)!}{(n_i+n_{ik}+j_s+j_{ik}-n_s-j_i-\boldsymbol{n}-2\cdot\mathbb{k}_2-\mathbb{k}_1-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n \wedge \mathbb{k}=0 \wedge \boldsymbol{s}=s \vee$

$I=\mathbb{k} \wedge s>1 \wedge \mathbb{k}>0 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge \mathbb{k}_z: z=2 \wedge \mathbb{k}=\mathbb{k}_1+\mathbb{k}_2 \vee$

$I=\mathbb{k} \wedge s>1 \wedge \mathbb{k}_2>0 \wedge \mathbb{k}_1=0 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge \mathbb{k}_z: z=1 \wedge \mathbb{k}=\mathbb{k}_2 \Rightarrow$

$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_i+n_{ik}+j_{ik}+\mathbb{k}_1-n_s-j_i-s-2\cdot\mathbb{k})!}{(n_i+n_{ik}+j_s+j_{ik}+\mathbb{k}_1-n_s-j_i-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n \wedge \mathbb{k}=0 \wedge \boldsymbol{s}=s \wedge j_{ik}=j_i-1 \vee$

$I=\mathbb{k} \wedge s>1 \wedge \mathbb{k}>0 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge \mathbb{k}_z: z=2 \wedge \mathbb{k}=\mathbb{k}_1+\mathbb{k}_2 \wedge j_{ik}=j_i-1 \vee$

$I=\mathbb{k} \wedge s>1 \wedge \mathbb{k}_2>0 \wedge \mathbb{k}_1=0 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge$

$\mathbb{k}_z: z=1 \wedge \mathbb{k}=\mathbb{k}_2 \wedge j_{ik}=j_i-1 \Rightarrow$

$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_s+j_{ik}-j_s-s+1)!}{(n_s+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n \wedge \mathbb{k}=0 \wedge \boldsymbol{s}=s \wedge j_{ik}=j_i-1 \vee$

$I=\mathbb{k} \wedge s>1 \wedge \mathbb{k}>0 \wedge \boldsymbol{s}=s+\mathbb{k} \wedge \mathbb{k}_z: z=2 \wedge \mathbb{k}=\mathbb{k}_1+\mathbb{k}_2 \wedge j_{ik}=j_i-1 \vee$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z{:}\, z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_{ik} - \boldsymbol{n} - j_{sa}^s + 1)! \cdot (\boldsymbol{n} - j_{ik} - 1)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z{:}\, z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

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$$S_0^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2 \cdot n_i - n_s - j_s - j_{ik} - s - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 1)!}{(2 \cdot n_i - n_s - j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - j_{sa}^s + 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z{:}\, z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

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$\Bbbk_z{:}\, z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

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$$\frac{(2 \cdot n_i - n_s - j_s - j_{ik} - s - 2 \cdot \Bbbk + 1)!}{(2 \cdot n_i - n_s - j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^s + 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{İSS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_i - s - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 4)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_i - \boldsymbol{n} - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - j_{sa}^s + 4)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

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$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{İSS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_{ik} - s - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 2)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_{ik} - \boldsymbol{n} - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - j_{sa}^s + 2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

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$$S_0^{iss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_i - s - 2 \cdot \Bbbk - \Bbbk_1 + 4)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_i - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1 - j_{sa}^s + 4)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{iss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_{ik} - s - 2 \cdot \Bbbk - \Bbbk_1 + 2)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1 - j_{sa}^s + 2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{iss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \Bbbk - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

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$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - \boldsymbol{n} - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-2\cdot j_{ik}-s-3\cdot\Bbbk_1-2\cdot\Bbbk_2-1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-2\cdot j_{ik}-\boldsymbol{n}-3\cdot\Bbbk_1-2\cdot\Bbbk_2-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j_i - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 2 \land \Bbbk = \Bbbk_1 + \Bbbk_2 \land j_{ik} = j_i - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk_2 > 0 \land \Bbbk_1 = 0 \land \boldsymbol{s} = s + \Bbbk \land$

$\Bbbk_z : z = 1 \land \Bbbk = \Bbbk_2 \land j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\dot{I}SS} = (D-s)!\cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-2\cdot j_i-s-2\cdot\Bbbk-\Bbbk_1+1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-2\cdot\Bbbk-\Bbbk_1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j_i - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 2 \land \Bbbk = \Bbbk_1 + \Bbbk_2 \land j_{ik} = j_i - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk_2 > 0 \land \Bbbk_1 = 0 \land \boldsymbol{s} = s + \Bbbk \land$

$\Bbbk_z : z = 1 \land \Bbbk = \Bbbk_2 \land j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\dot{I}SS} = (D-s)!\cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-2\cdot j_{ik}-s-2\cdot\Bbbk-\Bbbk_1-1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-2\cdot j_{ik}-\boldsymbol{n}-2\cdot\Bbbk-\Bbbk_1-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j_i - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 2 \land \Bbbk = \Bbbk_1 + \Bbbk_2 \land j_{ik} = j_i - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk_2 > 0 \land \Bbbk_1 = 0 \land \boldsymbol{s} = s + \Bbbk \land$

$\Bbbk_z: z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\mathrm{i}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot \Bbbk_2 - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_s - \boldsymbol{n} - 2 \cdot \Bbbk_2 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z: z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\mathrm{i}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \Bbbk_1 - n_s - j_s - s - 2 \cdot \Bbbk - 1)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \Bbbk_1 - n_s - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z: z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

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$$S_0^{\mathrm{i}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_i + n_{ik} - n_s - s - 2 \cdot \Bbbk_2 - \Bbbk_1 - 1)!}{(n_i + n_{ik} + j_s - n_s - \boldsymbol{n} - 2 \cdot \Bbbk_2 - \Bbbk_1 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j_i - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z: z = 2 \land \Bbbk = \Bbbk_1 + \Bbbk_2 \land j_{ik} = j_i - 1 \lor$

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$$S_0^{iss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-1)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(n_i+n_{ik}+\Bbbk_1-n_s-s-2\cdot\Bbbk-1)!}{(n_i+n_{ik}+j_s+\Bbbk_1-n_s-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \lor I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z: z = 1 \Rightarrow$

$$S_0^{iss} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \left(\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\right)_{j^{sa}}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \lor I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z: z = 1 \Rightarrow$

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$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \lor I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z: z = 1 \Rightarrow$

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$$S_0^{\dot{I}ss} = (D-s)! \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i + j_s + j_{sa} - j^{sa} - s - \Bbbk - j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_s + j_{sa} - j^{sa} - s - j_{sa}^{s})!}$$

$$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$$

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - \Bbbk - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^{s}\right)!}$$

$$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i + j^{sa} + j_{sa}^{s} - j_s - j_{sa} - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j^{sa} + j_{sa}^{s} - j_s - j_{sa} - s)!}$$

$$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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$$\frac{\left(n_i + 2 \cdot j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \lor I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

$$S_0^{\text{iss}} = (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s = 1} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})}$$

$$\sum_{(n_i = \boldsymbol{n} + \Bbbk)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk}$$

$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \Bbbk - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \lor I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

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$$\sum_{(n_i = \boldsymbol{n} + \Bbbk)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk}$$

$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \lor I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

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$$\frac{\left(n_i + 2 \cdot j_{ik} + j_{sa}^{s} + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_{ik} + j_{sa}^{s} + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \lor I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-\mathbb{k}-j_{sa}^{ik}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \Rightarrow$

$$S_0^{\mathrm{iss}} = (D-s)! \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{\left(n_i+j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}-s-\mathbb{k}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}-s\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \left(\frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}-s)!}\right)_{j^{sa}}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

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$$\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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$$\sum_{(n_i = \boldsymbol{n} + \Bbbk)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk}$$

$$\frac{(n_i + j_s + j_{sa} - j_{ik} - s - \Bbbk - j_{sa}^s - 1)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_s + j_{sa} - j_{ik} - s - j_{sa}^s - 1)!}$$

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$$\sum_{(n_i = \boldsymbol{n} + \Bbbk)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \Bbbk - 2 \cdot j_{sa}^s + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^s + 1\right)!}$$

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$$\sum_{(n_i = \boldsymbol{n} + \Bbbk)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa} - s - \Bbbk + 1)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa}^s - j_s - j_{sa} - s + 1)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \Bbbk - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

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$$\frac{\left(n_i + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - 1\right)!}$$

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$$S_0^{iss} = (D-s)! \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{\left(n_i + j_{ik} + j_{sa}^{s} + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - \mathbb{k} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1\right)!}$$

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

$I = \mathbb{k} \land s > 1 \land \mathbb{k} > 0 \land \boldsymbol{s} = s + \mathbb{k} \land \mathbb{k}_z : z = 1 \land j_{ik} = j^{sa} - 1 \Rightarrow$

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$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

$I = \mathbb{k} \land s > 1 \land \mathbb{k} > 0 \land \boldsymbol{s} = s + \mathbb{k} \land \mathbb{k}_z : z = 1 \land j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_0^{iss} = (D-s)! \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{\left(n_i + j_{sa}^{ik} - j_{sa} - s - \mathbb{k} + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - j_{sa} - s + 1\right)!}$$

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land \boldsymbol{s} = s \lor$

$I = \mathbb{k} \land s > 1 \land \mathbb{k} > 0 \land \boldsymbol{s} = s + \mathbb{k} \land \mathbb{k}_z : z = 2 \land \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \lor$

$I = \mathbb{k} \land s > 1 \land \mathbb{k}_2 > 0 \land \mathbb{k}_1 = 0 \land \boldsymbol{s} = s + \mathbb{k} \land \mathbb{k}_z : z = 1 \land \mathbb{k} = \mathbb{k}_2 \Rightarrow$

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$$S_0^{\text{iss}} = (D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\left(\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}\right)_{j^{sa}}$$

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$$\left(\frac{(n_i - s - \Bbbk_1 - \Bbbk_2)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}\right)_{j^{sa}}$$

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$$\frac{(n_i - s - \Bbbk_1 - \Bbbk_2)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(n_i + j_s + j_{sa} - j^{sa} - s - \Bbbk - j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_s + j_{sa} - j^{sa} - s - j_{sa}^{s})!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$\frac{(n_i + j_s + j_{sa} - j^{sa} - s - \Bbbk_1 - \Bbbk_2 - j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} + j_s + j_{sa} - j^{sa} - s - j_{sa}^{s})!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - \Bbbk - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$D = \boldsymbol{n} < n$

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$$\frac{(n_i + j^{sa} + j_{sa}^s - j_s - j_{sa} - s - \Bbbk_1 - \Bbbk_2)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} + j^{sa} + j_{sa}^s - j_s - j_{sa} - s)!}$$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

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$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \mathbb{k}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s\right)!}$$

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$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \mathbb{k}_1 - \mathbb{k}_2\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s\right)!}$$

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$$\frac{\left(n_i + 2 \cdot j_{ik} + j_{sa}^{s} + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s - \mathbb{k}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + 2 \cdot j_{ik} + j_{sa}^{s} + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s\right)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{\left(n_i+2\cdot j_{ik}+j_{sa}^{s}+j_{sa}-j_s-j^{sa}-2\cdot j_{sa}^{ik}-s-\Bbbk_1-\Bbbk_2\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+2\cdot j_{ik}+j_{sa}^{s}+j_{sa}-j_s-j^{sa}-2\cdot j_{sa}^{ik}-s\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\vee$

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$$S_0^{iss}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-\Bbbk-j_{sa}^{ik}\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\wedge\Bbbk=\Bbbk_2\Rightarrow$

$$S_0^{iss}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

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$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-\Bbbk_1-\Bbbk_2-j_{sa}^{ik}\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}$$

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$$S_0^{\text{İ}ss} = (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s = 1} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})}$$

$$\sum_{(n_i = \boldsymbol{n} + \Bbbk)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} - \Bbbk_1 + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2}$$

$$\frac{\left(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \lor$

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$$\frac{\left(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \Bbbk_1 - \Bbbk_2\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

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$$\sum_{(n_i = \boldsymbol{n} + \Bbbk)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} - \Bbbk_1 + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2}$$

$$\left(\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}\right)_{j^{sa}}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\;)}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\left(\frac{(n_i-s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot(\boldsymbol{n}-s)!}\right)_{j^{sa}}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

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$$\frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\ \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

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$$\frac{(n_i+j_s+j_{sa}-j_{ik}-s-\Bbbk-j_{sa}^{s}-1)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}+j_s+j_{sa}-j_{ik}-s-j_{sa}^{s}-1)!}$$

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$$\frac{(n_i+j_s+j_{sa}-j_{ik}-s-\Bbbk_1-\Bbbk_2-j_{sa}^{s}-1)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot(\boldsymbol{n}+j_s+j_{sa}-j_{ik}-s-j_{sa}^{s}-1)!}$$

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$\Bbbk_z\colon z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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$$\frac{\left(n_i + 2\cdot j_s + j_{sa} + j_{sa}^{ik} - 2\cdot j^{sa} - s - \Bbbk - 2\cdot j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j_{sa} + j_{sa}^{ik} - 2\cdot j^{sa} - s - 2\cdot j_{sa}^{s} + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\frac{(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa} - s - \mathbb{k} + 1)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa} - s + 1)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\frac{\left(n_i + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \mathbb{k} + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1\right)!}$$

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$$\frac{\left(n_i + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - 1\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 2 \land \Bbbk = \Bbbk_1 + \Bbbk_2 \land j_{ik} = j^{sa} - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk_2 > 0 \land \Bbbk_1 = 0 \land \boldsymbol{s} = s + \Bbbk \land$

$\Bbbk_z : z = 1 \land \Bbbk = \Bbbk_2 \land j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_0^{\text{iss}} = (D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{\left(n_i + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk_1 - \Bbbk_2 - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - 1\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

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$$S_0^{\text{iss}} = (D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \frac{\left(n_i+j_{ik}+j_{sa}^{s}+j_{sa}-j_s-2\cdot j_{sa}^{ik}-s-\Bbbk-1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}^{s}+j_{sa}-j_s-2\cdot j_{sa}^{ik}-s-1\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z\colon z=1\wedge\Bbbk=\Bbbk_2\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$S_0^{\text{İ}SS}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \frac{\left(n_i+j_{ik}+j_{sa}^{s}+j_{sa}-j_s-2\cdot j_{sa}^{ik}-s-\Bbbk_1-\Bbbk_2-1\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}^{s}+j_{sa}-j_s-2\cdot j_{sa}^{ik}-s-1\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \frac{\left(n_i+j_{sa}-s-\Bbbk-j_{sa}^{ik}-1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{sa}-s-j_{sa}^{ik}-1\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j^{sa}-1\vee$

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$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge$

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$$S_0^{\text{iss}}=(D-s)!\cdot\frac{\imath-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{\left(n_i+j_{sa}-s-\Bbbk_1-\Bbbk_2-j_{sa}^{ik}-1\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+j_{sa}-s-j_{sa}^{ik}-1\right)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{\left(n_i+j_{sa}^{ik}-j_{sa}-s-\Bbbk+1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-j_{sa}-s+1\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j^{sa}-1\vee$

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$$\frac{\left(n_i+j_{sa}^{ik}-j_{sa}-s-\Bbbk_1-\Bbbk_2+1\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-j_{sa}-s+1\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\Rightarrow$

$$S_0^{\text{iss}}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i+j_s-s-\Bbbk-j_{sa}^{s})!}{(n_i+j_s-\boldsymbol{n}-\Bbbk-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

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$$\frac{(n_i+j_s-s-\Bbbk-j_{sa}^{s})!}{(n_i+j_s-\boldsymbol{n}-\Bbbk-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\wedge\Bbbk=\Bbbk_2\Rightarrow$

$$S_0^{\text{iss}}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

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$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

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$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$$S_0^{\mathrm{iss}} = (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j_s - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s)!}{(n_i + j_s - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\frac{(n_i + j_s - s - \mathbb{k} - j_{sa}^s)!}{(n_i + j_s - \boldsymbol{n} - \mathbb{k} - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

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$$\frac{(n_i + j_s - s - \Bbbk_1 - \Bbbk_2 - j_{sa}^{s})!}{(n_i + j_s - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \lor I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

$$S_0^{iss} = (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_{ik} + j_{ik} - j_s - s - \Bbbk)!}{(n_{ik} + j_{ik} - \boldsymbol{n} - \Bbbk - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \lor I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_{ik} + j_{sa}^{ik} - s - \Bbbk - j_{sa}^{s}\right)!}{(n_{ik} + j_{ik} - \boldsymbol{n} - \Bbbk - j_{sa}^{s})! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - s - j_{ik}\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \lor I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

$$S_0^{iss} = (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - \Bbbk + 2)!}{(2 \cdot n_i - n_{ik} - j_{ik} - \boldsymbol{n} - \Bbbk - j_{sa}^{s} + 2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \lor I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(2\cdot n_i+j_s-n_{ik}-j_{ik}-s-\Bbbk)!}{(2\cdot n_i+2\cdot j_s-n_{ik}-j_{ik}-\boldsymbol{n}-\Bbbk-j_{sa}^{s})!\cdot(\boldsymbol{n}+j_{sa}^{s}-s-j_s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

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$$S_0^{\text{iss}}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_{ik}+j^{sa}-j_s-s-\Bbbk-1)!}{(n_{ik}+j^{sa}-\boldsymbol{n}-\Bbbk-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_{ik}+j_{sa}^{ik}-s-\Bbbk-j_{sa}^{s}\right)!}{(n_{ik}+j^{sa}-\boldsymbol{n}-\Bbbk-j_{sa}^{s}-1)!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j^{sa}+1\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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$$\frac{(2\cdot n_i - n_{ik} - j_s - j^{sa} - s - \mathbb{k} + 3)!}{(2\cdot n_i - n_{ik} - j^{sa} - \boldsymbol{n} - \mathbb{k} - j_{sa}^{s} + 3)!\cdot(\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_0^{\text{iss}} = (D-s)!\cdot\frac{\iota - I}{n - s - I + 1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

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$$\frac{(2\cdot n_i + j_s - n_{ik} - j^{sa} - s - \mathbb{k} + 1)!}{(2\cdot n_i + 2\cdot j_s - n_{ik} - j^{sa} - \boldsymbol{n} - \mathbb{k} - j_{sa}^{s} + 1)!\cdot(\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$$S_0^{\text{iss}} = (D-s)!\cdot\frac{\iota - I}{n - s - I + 1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

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$$\frac{(n_{ik} + j_{ik} - j_s - s - \mathbb{k}_2)!}{(n_{ik} + j_{ik} - \boldsymbol{n} - \mathbb{k}_2 - j_{sa}^{s})!\cdot(\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

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$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$$S_0^{\text{iss}} = (D-s)!\cdot\frac{\iota - I}{n - s - I + 1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

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$$\frac{(n_{ik}+j_{ik}+\Bbbk_1-j_s-s-\Bbbk)!}{(n_{ik}+j_{ik}+\Bbbk_1-\boldsymbol{n}-\Bbbk-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\wedge\Bbbk=\Bbbk_2\Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{\left(n_{ik}+j_{sa}^{ik}-s-\Bbbk_2-j_{sa}^{s}\right)!}{(n_{ik}+j_{ik}-\boldsymbol{n}-\Bbbk_2-j_{sa}^{s})!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j_{ik}\right)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(2\cdot n_i-n_{ik}-j_s-j_{ik}-s-2\cdot\mathbb{k}_1-\mathbb{k}_2+2)!}{(2\cdot n_i-n_{ik}-j_{ik}-\boldsymbol{n}-2\cdot\mathbb{k}_1-\mathbb{k}_2-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

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$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z{:}\,z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\wedge j_{ik}=j^{sa}-1\vee$

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$\mathbb{k}_z{:}\,z=1\wedge\mathbb{k}=\mathbb{k}_2\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$S_0^{\dot{\imath}ss}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

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$$S_0^{\mathrm{i}ss} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_{ik}+j^{sa}+\mathbb{k}_1-j_s-s-\mathbb{k}-1)!}{(n_{ik}+j^{sa}+\mathbb{k}_1-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s}-1)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

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$$\sum_{(n_i = \boldsymbol{n} + \mathbb{k})}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} - \mathbb{k}_1 + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(2 \cdot n_i - n_{ik} - j_s - j^{sa} - s - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 + 3)!}{(2 \cdot n_i - n_{ik} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^{s} + 3)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\frac{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_s - j^{sa} - s - 2 \cdot \mathbb{k} + 3)!}{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} + 3)! \cdot (\boldsymbol{n} - s)!}$$

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$$\sum_{(n_i = \boldsymbol{n} + \mathbb{k})}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_{sa} + j^{sa} - j_s - s)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_0^{\dot{\imath}ss} = (D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_{sa} + j_{sa} - s - j_{sa}^{s})!}{(n_{sa} + j^{sa} - \boldsymbol{n} - j_{sa}^{s})! \cdot (\boldsymbol{n} + j_{sa} - s - j^{sa})!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\frac{(2\cdot n_i + j_s - n_{sa} - j^{sa} - s - 2\cdot \Bbbk)!}{(2\cdot n_i + 2\cdot j_s - n_{sa} - j^{sa} - \boldsymbol{n} - 2\cdot \Bbbk - j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(3\cdot n_i + 2\cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - s - 2\cdot \Bbbk)!}{(3\cdot n_i + 3\cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - \boldsymbol{n} - 2\cdot \Bbbk - j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_{sa}+j_{ik}-j_s-s+1)!}{(n_{sa}+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-s)!}$$

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$$S_0^{iss} = (D-s)! \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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$$\frac{(3\cdot n_i-n_{ik}-n_{sa}-j_s-2\cdot j^{sa}-s-2\cdot\mathbb{k}+4)!}{(3\cdot n_i-n_{ik}-n_{sa}-2\cdot j^{sa}-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s}+4)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z{:}\,z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$S_0^{iss}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_0^{iss} = (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - s - 2 \cdot \Bbbk - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\frac{(2 \cdot n_{ik} + j_{ik} - n_{sa} - j_s - s - 2 \cdot \Bbbk - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_{sa} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(n_i + n_{ik} - n_{sa} - s - 2 \cdot \Bbbk - 1)!}{(n_i + n_{ik} + j_s - n_{sa} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$S_0^{\text{İss}}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_{sa}+j^{sa}-j_s-s)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_{sa}+j_{sa}-s-j_{sa}^{s})!}{(n_{sa}+j^{sa}-\boldsymbol{n}-j_{sa}^{s})!\cdot(\boldsymbol{n}+j_{sa}-s-j^{sa})!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\vee$

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$$\frac{(2\cdot n_i-n_{sa}-j_s-j^{sa}-s-2\cdot\Bbbk_1-2\cdot\Bbbk_2+2)!}{(2\cdot n_i-n_{sa}-j^{sa}-\boldsymbol{n}-2\cdot\Bbbk_1-2\cdot\Bbbk_2-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

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$$S_0^{\text{i̇ss}} = (D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j^{sa} - s - 2 \cdot \Bbbk + 2)!}{(2 \cdot n_i - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} + 2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 3)!}{(3 \cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - \boldsymbol{n} - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - j_{sa}^{s} + 3)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 2 \cdot \Bbbk - \Bbbk_1 + 3)!}{(3 \cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1 - j_{sa}^{s} + 3)! \cdot (\boldsymbol{n} - s)!}$$

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$$S_0^{iss} = (D-s)! \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$\frac{(2\cdot n_i + j_s - n_{sa} - j^{sa} - s - 2\cdot\Bbbk_1 - 2\cdot\Bbbk_2)!}{(2\cdot n_i + 2\cdot j_s - n_{sa} - j^{sa} - \boldsymbol{n} - 2\cdot\Bbbk_1 - 2\cdot\Bbbk_2 - j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(2\cdot n_i + j_s - n_{sa} - j^{sa} - s - 2\cdot\Bbbk)!}{(2\cdot n_i + 2\cdot j_s - n_{sa} - j^{sa} - \boldsymbol{n} - 2\cdot\Bbbk - j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

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$$S_0^{\text{İ}ss} = (D-s)! \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k}_2)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k}_2 - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$$S_0^{\text{İ}ss} = (D-s)! \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \mathbb{k}_1 - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \mathbb{k}_1 - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land \boldsymbol{s} = s \lor$

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$$S_0^{iss} = (D-s)! \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_i+n_{ik}+j_{ik}-n_{sa}-j^{sa}-s-2\cdot\Bbbk_2-\Bbbk_1)!}{(n_i+n_{ik}+j_s+j_{ik}-n_{sa}-j^{sa}-\boldsymbol{n}-2\cdot\Bbbk_2-\Bbbk_1-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n \wedge \Bbbk=0 \wedge \boldsymbol{s}=s \vee$

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$$\frac{(n_i+n_{ik}+j_{ik}+\Bbbk_1-n_{sa}-j^{sa}-s-2\cdot\Bbbk)!}{(n_i+n_{ik}+j_s+j_{ik}+\Bbbk_1-n_{sa}-j^{sa}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n \wedge \Bbbk=0 \wedge \boldsymbol{s}=s \wedge j_{ik}=j^{sa}-1 \vee$

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$I=\Bbbk \wedge s>1 \wedge \Bbbk_2>0 \wedge \Bbbk_1=0 \wedge \boldsymbol{s}=s+\Bbbk \wedge$

$\Bbbk_z\colon z=1 \wedge \Bbbk=\Bbbk_2 \wedge j_{ik}=j^{sa}-1 \Rightarrow$

$$S_0^{iss} = (D-s)! \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_{sa}+j_{ik}-j_s-s+1)!}{(n_{sa}+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n \wedge \Bbbk=0 \wedge \boldsymbol{s}=s \wedge j_{ik}=j^{sa}-1 \vee$

$I=\Bbbk \wedge s>1 \wedge \Bbbk>0 \wedge \boldsymbol{s}=s+\Bbbk \wedge \Bbbk_z\colon z=2 \wedge \Bbbk=\Bbbk_1+\Bbbk_2 \wedge j_{ik}=j^{sa}-1 \vee$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_0^{iss} = (D - s)! \cdot \frac{\imath - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j_{ik} - \boldsymbol{n} - j_{sa}^s + 1)! \cdot (\boldsymbol{n} + j_{sa} - s - j_{ik} - 1)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j_{ik} - s - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 1)!}{(2 \cdot n_i - n_{sa} - j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - j_{sa}^s + 1)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(2\cdot n_i - n_{sa} - j_s - j_{ik} - s - 2\cdot\mathbb{k} + 1)!}{(2\cdot n_i - n_{sa} - j_{ik} - \boldsymbol{n} - 2\cdot\mathbb{k} - j_{sa}^{s} + 1)!\cdot(\boldsymbol{n} - s)!}$$

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$$\frac{(3\cdot n_i - n_{ik} - n_{sa} - j_s - 2\cdot j^{sa} - s - 3\cdot\mathbb{k}_1 - 2\cdot\mathbb{k}_2 + 4)!}{(3\cdot n_i - n_{ik} - n_{sa} - 2\cdot j^{sa} - \boldsymbol{n} - 3\cdot\mathbb{k}_1 - 2\cdot\mathbb{k}_2 - j_{sa}^{s} + 4)!\cdot(\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$S_0^{iss} = (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$S_0^{iss} = (D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j^{sa} - s - 2 \cdot \Bbbk - \Bbbk_1 + 4)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1 - j_{sa}^{s} + 4)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

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$$\sum_{(n_i = \boldsymbol{n} + \Bbbk)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} - \Bbbk_1 + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2}$$

$$\frac{(2 \cdot n_i + j_s - n_{sa} - j_{ik} - s - 2 \cdot \Bbbk - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - s - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \boldsymbol{n} - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_{sa}-2\cdot j_{ik}-s-3\cdot\Bbbk_1-2\cdot\Bbbk_2-1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_{sa}-2\cdot j_{ik}-\boldsymbol{n}-3\cdot\Bbbk_1-2\cdot\Bbbk_2-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(2\cdot n_{ik}+j_{ik}+2\cdot\mathbb{k}_1-n_{sa}-j_s-s-2\cdot\mathbb{k}-1)!}{(2\cdot n_{ik}+j_{ik}+2\cdot\mathbb{k}_1-n_{sa}-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^s-1)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(n_i+n_{ik}-n_{sa}-s-2\cdot\mathbb{k}_2-\mathbb{k}_1-1)!}{(n_i+n_{ik}+j_s-n_{sa}-\boldsymbol{n}-2\cdot\mathbb{k}_2-\mathbb{k}_1-j_{sa}^s-1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

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$\Bbbk_z\colon z=1\wedge\Bbbk=\Bbbk_2\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$S_0^{\text{iss}}=(D-s)!\cdot\frac{\imath-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_i+n_{ik}+\Bbbk_1-n_{sa}-s-2\cdot\Bbbk-1)!}{(n_i+n_{ik}+j_s+\Bbbk_1-n_{sa}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\Rightarrow$

$$S_0^{\text{iss}}=(D-s)!\cdot\frac{\imath-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\left(\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\right)_{j_i}$$

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$$S_0^{\text{İ}ss} = (D-s)! \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(n_i + j_s - j_i - \Bbbk - j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_s - j_i - j_{sa}^s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk - 2 \cdot j_{sa}^s\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - 2 \cdot s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_i + j_{sa}^s - j_s - 2 \cdot s)!}$$

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$$\frac{\left(n_i + 2\cdot j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 3\cdot s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)!\cdot\left(\boldsymbol{n} + 2\cdot j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 3\cdot s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \Bbbk - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)!\cdot\left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)!\cdot\left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_i + 2\cdot j_{ik} + j_{sa}^{s} - j_s - j_i - 2\cdot j_{sa}^{ik} - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)!\cdot\left(\boldsymbol{n} + 2\cdot j_{ik} + j_{sa}^{s} - j_s - j_i - 2\cdot j_{sa}^{ik}\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_0^{\text{İ}SS} = (D - s)!\cdot\frac{\iota - I}{n - s - I + 1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_i+j_{ik}-j_i-\Bbbk-j_{sa}^{ik}\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}-j_i-j_{sa}^{ik}\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

$$S_0^{\dot{I}ss}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_i+j_i+j_{sa}^{ik}-j_{ik}-2\cdot s-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_i+j_{sa}^{ik}-j_{ik}-2\cdot s\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\wedge j_{ik}=j_i-1\Rightarrow$

$$S_0^{\dot{I}ss}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \left(\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\right)_{j_i}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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$$\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{iss} = (D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(n_i + j_s - j_{ik} - \Bbbk - j_{sa}^s - 1)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_s - j_{ik} - j_{sa}^s - 1)!}$$

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \Bbbk - 2 \cdot j_{sa}^s + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - \Bbbk + 1)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$S_0^{\dot{I}ss} = (D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \Bbbk - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

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$$S_0^{iss} = (D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot j_{sa}^{ik} - \Bbbk - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot j_{sa}^{ik} - 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z\!: z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z\!: z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S_0^{\dot{I}SS} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\left(\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\right)_{j_i}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$S_0^{\dot{I}SS} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\left(\frac{(n_i-s-\Bbbk_1-\Bbbk_2)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot(\boldsymbol{n}-s)!}\right)_{j_i}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$S_0^{\dot{I}SS} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S_0^{iss} = (D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(n_i - s - \Bbbk_1 - \Bbbk_2)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

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$$S_0^{iss} = (D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(n_i + j_s - j_i - \Bbbk - j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_s - j_i - j_{sa}^s)!}$$

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$$\left(\frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!}\right)_{j_i}$$

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$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\left(\frac{(n_i - s - \Bbbk_1 - \Bbbk_2)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}\right)_{j_i}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(n_i-s-\Bbbk_1-\Bbbk_2)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \Bbbk - 2 \cdot j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^{s} + 1\right)!}$$

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \Bbbk_1 - \Bbbk_2 - 2 \cdot j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^{s} + 1\right)!}$$

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$$\frac{(n_i + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot s - \Bbbk + 1)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot s + 1)!}$$

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$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_i - s - \Bbbk_1 - \Bbbk_2 - j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^{s} + 1\right)!}$$

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$\Bbbk_z: z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\dot{I}ss} = (D-s)! \cdot \frac{\imath - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{\left(n_i + j_{sa}^{ik} - 2 \cdot s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - 2 \cdot s + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{\left(n_i + j_{sa}^{ik} - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - 2 \cdot s + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \Rightarrow$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{(n_i + j_s - s - \Bbbk_1 - \Bbbk_2 - j_{sa}^s)!}{(n_i + j_s - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - \Bbbk + 2)!}{(2 \cdot n_i - n_{ik} - j_{ik} - \boldsymbol{n} - \Bbbk - j_{sa}^s + 2)! \cdot (\boldsymbol{n} - s)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{(2\cdot n_i + j_s - n_{ik} - j_{ik} - s - \Bbbk)!}{(2\cdot n_i + 2\cdot j_s - n_{ik} - j_{ik} - \boldsymbol{n} - \Bbbk - j_{sa}^s)!\cdot(\boldsymbol{n} + j_{sa}^s - s - j_s)!}$$

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$$\frac{(2\cdot n_i - n_{ik} - j_s - j_i - s - \Bbbk + 3)!}{(2\cdot n_i - n_{ik} - j_i - \boldsymbol{n} - \Bbbk - j_{sa}^{s} + 3)!\cdot(\boldsymbol{n} - s)!}$$

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$$\frac{(2\cdot n_i + j_s - n_{ik} - j_i - s - \Bbbk + 1)!}{(2\cdot n_i + 2\cdot j_s - n_{ik} - j_i - \boldsymbol{n} - \Bbbk - j_{sa}^{s} + 1)!\cdot(\boldsymbol{n} - s)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(2\cdot n_i-n_{ik}-j_s-j_{ik}-s-2\cdot\mathbb{k}_1-\mathbb{k}_2+2)!}{(2\cdot n_i-n_{ik}-j_{ik}-\boldsymbol{n}-2\cdot\mathbb{k}_1-\mathbb{k}_2-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

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$$S_0^{\text{İSS}}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

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$$S_0^{\text{İSS}}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_{ik}+j_i-j_s-s-\mathbb{k}_2-1)!}{(n_{ik}+j_i-\boldsymbol{n}-\mathbb{k}_2-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z:z=1\wedge\mathbb{k}=\mathbb{k}_2\wedge j_{ik}=j_i-1\Rightarrow$

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$$S_0^{iss} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_{ik}+j_i+\Bbbk_1-j_s-s-\Bbbk-1)!}{(n_{ik}+j_i+\Bbbk_1-\boldsymbol{n}-\Bbbk-j_{sa}^s-1)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j_i - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 2 \land \Bbbk = \Bbbk_1 + \Bbbk_2 \land j_{ik} = j_i - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk_2 > 0 \land \Bbbk_1 = 0 \land \boldsymbol{s} = s + \Bbbk \land$

$\Bbbk_z : z = 1 \land \Bbbk = \Bbbk_2 \land j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{iss} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{\left(n_{ik}+j_{sa}^{ik}-s-\Bbbk_2-j_{sa}^s\right)!}{(n_{ik}+j_i-\boldsymbol{n}-\Bbbk_2-j_{sa}^s-1)! \cdot \left(\boldsymbol{n}+j_{sa}^{ik}-s-j_i+1\right)!}$$

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$$\frac{\left(n_{ik}+j_{sa}^{ik}+\Bbbk_1-s-\Bbbk-j_{sa}^s\right)!}{(n_{ik}+j_i+\Bbbk_1-\boldsymbol{n}-\Bbbk-j_{sa}^s-1)! \cdot \left(\boldsymbol{n}+j_{sa}^{ik}-s-j_i+1\right)!}$$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_i - s - 2 \cdot \Bbbk_1 - \Bbbk_2 + 3)!}{(2 \cdot n_i - n_{ik} - j_i - \boldsymbol{n} - 2 \cdot \Bbbk_1 - \Bbbk_2 - j_{sa}^{s} + 3)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$S_0^{\dot{\imath}ss} = (D - s)! \cdot \frac{\imath - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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$$\frac{(2 \cdot n_i + \Bbbk_2 - n_{ik} - j_s - j_i - s - 2 \cdot \Bbbk + 3)!}{(2 \cdot n_i + \Bbbk_2 - n_{ik} - j_i - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} + 3)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_0^{\dot{\imath}ss} = (D - s)! \cdot \frac{\imath - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - \boldsymbol{n} - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

$$S_0^{iss}=(D-s)!\cdot\frac{\imath-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(n_s-j_{sa}^s)!}{(n_s+j_i-\boldsymbol{n}-j_{sa}^s)!\cdot(\boldsymbol{n}-j_i)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

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$$\frac{(2\cdot n_i-n_s-j_s-j_i-s-2\cdot\Bbbk+2)!}{(2\cdot n_i-n_s-j_i-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^s+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

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$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-j_{ik}-j_i-s-2\cdot\Bbbk+3)!}{(3\cdot n_i-n_{ik}-n_s-j_{ik}-j_i-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^s+3)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(2\cdot n_i+j_s-n_s-j_i-s-2\cdot \mathbb{k})!}{(2\cdot n_i+2\cdot j_s-n_s-j_i-\boldsymbol{n}-2\cdot \mathbb{k}-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge \mathbb{k}=0\wedge \boldsymbol{s}=s\vee I=\mathbb{k}\wedge s>1\wedge \mathbb{k}>0\wedge \boldsymbol{s}=s+\mathbb{k}\wedge \mathbb{k}_z\colon z=1\Rightarrow$

$$S_0^{\dot{\mathrm{I}}SS}=(D-s)!\cdot\frac{\imath-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

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$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-j_{ik}-j_i-s-2\cdot \mathbb{k})!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-j_{ik}-j_i-\boldsymbol{n}-2\cdot \mathbb{k}-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(2\cdot n_{ik}+2\cdot j_{ik}-n_s-j_s-j_i-s-2\cdot \mathbb{k})!}{(2\cdot n_{ik}+2\cdot j_{ik}-n_s-j_i-\boldsymbol{n}-2\cdot \mathbb{k}-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(n_s+j_{ik}-j_s-s+1)!}{(n_s+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{(n_s-j_{sa}^{s})!}{(n_s+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-j_{ik}-1)!}$$

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$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-2\cdot j_i-s-2\cdot\mathbb{k}+4)!}{(3\cdot n_i-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s}+4)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-2\cdot j_i-s-2\cdot\mathbb{k}+1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-2\cdot\mathbb{k})!\cdot(\boldsymbol{n}-s)!}$$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{iss} = (D - s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot \Bbbk - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot \Bbbk - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_s - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(n_i + n_{ik} - n_s - s - 2 \cdot \Bbbk - 1)!}{(n_i + n_{ik} + j_s - n_s - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

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$$S_0^{\dot{I}ss} = (D-s)! \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\boldsymbol{n}-j_{sa}^{s})! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$$S_0^{\dot{I}ss} = (D-s)! \cdot \frac{\iota - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_s-j_{sa}^{s})!}{(n_s+j_i-\boldsymbol{n}-j_{sa}^{s})! \cdot (\boldsymbol{n}-j_i)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

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$$\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 2)!}{(2 \cdot n_i - n_s - j_i - \boldsymbol{n} - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^{s} + 2)! \cdot (\boldsymbol{n}-s)!}$$

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$$S_0^{iss}=(D-s)!\cdot\frac{\imath-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2\cdot n_i-n_s-j_s-j_i-s-2\cdot\mathbb{k}+2)!}{(2\cdot n_i-n_s-j_i-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

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$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-j_{ik}-j_i-s-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2+3)!}{(3\cdot n_i-n_{ik}-n_s-j_{ik}-j_i-\boldsymbol{n}-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2-j_{sa}^{s}+3)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

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$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

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$$S_0^{\dot{I}ss} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(2 \cdot n_i + j_s - n_s - j_i - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_i - \boldsymbol{n} - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$$S_0^{\text{iss}} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot \Bbbk - \Bbbk_1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - \boldsymbol{n} - 2 \cdot \Bbbk - \Bbbk_1 - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_s - j_i - s - 2 \cdot \Bbbk_2)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_i - \boldsymbol{n} - 2 \cdot \Bbbk_2 - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \Bbbk_1 - n_s - j_s - j_i - s - 2 \cdot \Bbbk)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \Bbbk_1 - n_s - j_i - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$$S_0^{\text{İ}ss} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(n_i+n_{ik}+j_{ik}-n_s-j_i-s-2\cdot\Bbbk_2-\Bbbk_1)!}{(n_i+n_{ik}+j_s+j_{ik}-n_s-j_i-\boldsymbol{n}-2\cdot\Bbbk_2-\Bbbk_1-j_{sa}^{s})! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\text{İ}ss} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(n_s+j_{ik}-j_s-s+1)!}{(n_s+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)! \cdot (\boldsymbol{n}-s)!}$$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z\colon z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{iss} = (D-s)! \cdot \frac{\iota - I}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_{ik} - \boldsymbol{n} - j_{sa}^s + 1)! \cdot (\boldsymbol{n} - j_{ik} - 1)!}$$

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$$\frac{(2 \cdot n_i - n_s - j_s - j_{ik} - s - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 1)!}{(2 \cdot n_i - n_s - j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - j_{sa}^s + 1)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(2\cdot n_i-n_s-j_s-j_{ik}-s-2\cdot\mathbb{k}+1)!}{(2\cdot n_i-n_s-j_{ik}-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

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$$S_0^{iss}=(D-s)!\cdot\frac{\imath-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

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$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-2\cdot j_i-s-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2+4)!}{(3\cdot n_i-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2-j_{sa}^{s}+4)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

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$$S_0^{iss}=(D-s)!\cdot\frac{\imath-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

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$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-2\cdot j_{ik}-s-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2+2)!}{(3\cdot n_i-n_{ik}-n_s-2\cdot j_{ik}-\boldsymbol{n}-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z{:}\,z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z{:}\,z=1\wedge\mathbb{k}=\mathbb{k}_2\wedge j_{ik}=j_i-1\Rightarrow$

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$$S_0^{iss}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-2\cdot j_i-s-2\cdot\Bbbk-\Bbbk_1+4)!}{(3\cdot n_i-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-2\cdot\Bbbk-\Bbbk_1-j_{sa}^s+4)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\land\Bbbk=0\land\boldsymbol{s}=s\land j_{ik}=j_i-1\lor$

$I=\Bbbk\land s>1\land\Bbbk>0\land\boldsymbol{s}=s+\Bbbk\land\Bbbk_z:z=2\land\Bbbk=\Bbbk_1+\Bbbk_2\land j_{ik}=j_i-1\lor$

$I=\Bbbk\land s>1\land\Bbbk_2>0\land\Bbbk_1=0\land\boldsymbol{s}=s+\Bbbk\land$

$\Bbbk_z:z=1\land\Bbbk=\Bbbk_2\land j_{ik}=j_i-1\Rightarrow$

$$S_0^{iss}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-2\cdot j_{ik}-s-2\cdot\Bbbk-\Bbbk_1+2)!}{(3\cdot n_i-n_{ik}-n_s-2\cdot j_{ik}-\boldsymbol{n}-2\cdot\Bbbk-\Bbbk_1-j_{sa}^s+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\land\Bbbk=0\land\boldsymbol{s}=s\land j_{ik}=j_i-1\lor$

$I=\Bbbk\land s>1\land\Bbbk>0\land\boldsymbol{s}=s+\Bbbk\land\Bbbk_z:z=2\land\Bbbk=\Bbbk_1+\Bbbk_2\land j_{ik}=j_i-1\lor$

$I=\Bbbk\land s>1\land\Bbbk_2>0\land\Bbbk_1=0\land\boldsymbol{s}=s+\Bbbk\land$

$\Bbbk_z:z=1\land\Bbbk=\Bbbk_2\land j_{ik}=j_i-1\Rightarrow$

$$S_0^{iss}=(D-s)!\cdot\frac{\iota-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2\cdot n_i+j_s-n_s-j_{ik}-s-2\cdot\Bbbk_1-2\cdot\Bbbk_2-1)!}{(2\cdot n_i+2\cdot j_s-n_s-j_{ik}-\boldsymbol{n}-2\cdot\Bbbk_1-2\cdot\Bbbk_2-j_{sa}^s-1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\land\Bbbk=0\land\boldsymbol{s}=s\land j_{ik}=j_i-1\lor$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\dot{I}ss} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \Bbbk - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\dot{I}ss} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - \boldsymbol{n} - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\dot{I}ss} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-2\cdot j_{ik}-s-3\cdot\Bbbk_1-2\cdot\Bbbk_2-1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-2\cdot j_{ik}-\boldsymbol{n}-3\cdot\Bbbk_1-2\cdot\Bbbk_2-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z\colon z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z\colon z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\text{iss}} = (D-s)!\cdot\frac{\iota - I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-2\cdot j_i-s-2\cdot\Bbbk-\Bbbk_1+1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-2\cdot\Bbbk-\Bbbk_1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z\colon z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z\colon z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\text{iss}} = (D-s)!\cdot\frac{\iota - I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-2\cdot j_{ik}-s-2\cdot\Bbbk-\Bbbk_1-1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-2\cdot j_{ik}-\boldsymbol{n}-2\cdot\Bbbk-\Bbbk_1-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z\colon z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\dot{I}ss} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2\cdot n_{ik}+j_{ik}-n_s-j_s-s-2\cdot\Bbbk_2-1)!}{(2\cdot n_{ik}+j_{ik}-n_s-\boldsymbol{n}-2\cdot\Bbbk_2-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z: z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

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$$S_0^{\dot{I}ss} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2\cdot n_{ik}+j_{ik}+2\cdot\Bbbk_1-n_s-j_s-s-2\cdot\Bbbk-1)!}{(2\cdot n_{ik}+j_{ik}+2\cdot\Bbbk_1-n_s-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z: z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_0^{\dot{I}ss} = (D-s)! \cdot \frac{\imath - I}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_i+n_{ik}-n_s-s-2\cdot\Bbbk_2-\Bbbk_1-1)!}{(n_i+n_{ik}+j_s-n_s-\boldsymbol{n}-2\cdot\Bbbk_2-\Bbbk_1-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

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$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge$

$\mathbb{k}_z:z=1\wedge\mathbb{k}=\mathbb{k}_2\wedge j_{ik}=j_i-1\Rightarrow$

$$S_0^{iss}=(D-s)!\cdot\frac{\imath-I}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i+n_{ik}+\mathbb{k}_1-n_s-s-2\cdot\mathbb{k}-1)!}{(n_i+n_{ik}+j_s+\mathbb{k}_1-n_s-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge I=\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z>1\Rightarrow$

$$S_0^{iss}=\prod_{z=3}^{s}\sum_{((j_i)_1=2)}^{(\ )}\sum_{(j_{ik})_{z-1}=z-1}\sum_{((j_i)_{z-1}=z\vee z=s\Rightarrow s)}^{(\ )}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n-1}\sum_{\left((n_{ik})_1=n_i-(j_i)_1-\sum_{i=1}\mathbb{k}_i+1\right)}^{(\ )}$$

$$\sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}\mathbb{k}_i}$$

$$\sum_{\left((n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}\mathbb{k}_i\right)}^{(\ )}$$

$$\frac{(D-s)!}{(D-s-(j_i)_1+2)!}\cdot\frac{\left(D-s-\left(j_{ik}-j_{sa}^{ik}\right)_{z-1}\right)!}{\left(D-s-(j_i)_{z-1}+(j_{ik})_{z-1}-\left(j_{ik}-j_{sa}^{ik}\right)_{z-1}+1\right)!}\cdot$$

$$\frac{(D-(j_i)_{z=s})!}{(D-\boldsymbol{n})!}\cdot$$

$$\frac{(n_i-(n_{ik})_1-1)!}{((j_i)_1-2)!\cdot(n_i-(n_{ik})_1-(j_i)_1+1)!}\cdot$$

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$$\frac{((n_{ik})_{z-1}-(n_s)_{z-1}-1)!}{((j_i)_{z-1}-(j_{ik})_{z-1}-1)!\cdot((n_{ik})_{z-1}+(j_{ik})_{z-1}-(n_s)_{z-1}-(j_i)_{z-1})!}\cdot$$

$$\frac{((n_s)_{z=s}-1)!}{((n_s)_{z=s}+(j_i)_{z=s}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-(j_i)_{z=s})!}$$

## BAĞIMLI DURUMLA BAŞLAYAN DAĞILIMLARDA BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİ

Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde $\{1,2,3,4,5\}$ veya $\{1,2,0,0,0,3,4,0,0,5\}$, simetrinin başladığı bağımlı durumla başlayan dağılımlardaki düzgün simetrik olasılıklar; aynı şartlı ilk düzgün simetrik olasılıktan, bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik olasılığın çıkarılmasına eşit olur. Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde, simetrinin başladığı durumla başlayan dağılımlardaki, düzgün simetrik olasılıklar için;

$$S_D^{\text{İ}SS}=S^{\text{İ}SS}-\quad S_0^{\text{İ}SS}$$

eşitliğin sağındaki $S^{\text{İ}SS}=\frac{(n-s+1)!}{\iota!\cdot(D-s+1)}$ ve $S_0^{\text{İ}SS}=\frac{(n-s)!}{(\iota-1)!\cdot(D-s+1)}$ terimlerin simetri bağımlı durumlardan oluştuğundaki $\{1,2,3,4,5\}$ eşitleri yazıldığında,

$$S_D^{\text{İ}SS}=\frac{(n-s+1)!}{\iota!\cdot(D-s+1)}-\frac{(n-s)!}{(\iota-1)!\cdot(D-s+1)}$$

$$S_D^{\text{İ}SS}=\frac{(n-s)!}{\iota!\cdot(D-s+1)}\cdot\big((n-s+1)-\iota\big)$$

$$S_D^{\text{İ}SS}=\frac{(n-s)!\cdot(n-\iota-s+1)}{\iota!\cdot(D-s+1)}$$

bu eşitlikte $D=n-\iota$ olacağından,

$$S_D^{\text{İ}SS}=\frac{(n-s)!\cdot\cancel{(n-\iota-s+1)}}{\iota!\cdot\cancel{(D-s+1)}}$$

$$S_D^{\text{İ}SS}=\frac{(n-s)!}{\iota!}$$

veya yukarıdaki eşitliğin sağındaki $S^{\text{İ}SS}=\frac{(n-s+1)!}{\iota!\cdot(n-\iota-s+1)}$ ve $S_0^{\text{İ}SS}=\frac{(n-s)!}{(\iota-1)!\cdot(n-\iota-s+1)}$ terimleri yazıldığında,

$$S_D^{\text{İ}SS}=S^{\text{İ}SS}-\quad S_0^{\text{İ}SS}$$

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$$S_D^{\text{İ}SS} = \frac{(n-s+1)!}{\imath! \cdot (n-\imath-s+1)} - \frac{(n-s)!}{(\imath-1)! \cdot (n-\imath-s+1)}$$

$$S_D^{\text{İ}SS} = \frac{(n-s)!}{\imath! \cdot (n-\imath-s+1)} \cdot \big((n-s+1)-\imath\big)$$

$$S_D^{\text{İ}SS} = \frac{(n-s)!}{\imath! \cdot \cancel{(n-\imath-s+1)}} \cdot \cancel{(n-\imath-s+1)}$$

$$S_D^{\text{İ}SS} = \frac{(n-s)!}{\imath!}$$

veya $S^{\text{İ}SS}$ eşitliğinde $n_i = n$ yazıldığında,

$$S_D^{\text{İ}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n_i-s+1} \frac{(n_i-s)!}{(n_i-D)! \cdot (D-s)!}$$

$$S_D^{\text{İ}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n_i-s+1} \frac{(n-s)!}{(n-D)! \cdot (D-s)!}$$

veya simetri bağımlı durumla başlayıp, bağımsız durumları bulunup bağımlı durumla bittiğinde $\{1,2,0,0,0,0,3,4,0,0,5\}$,

$$S_D^{\text{İ}SS} = S^{\text{İ}SS} - S_0^{\text{İ}SS}$$

eşitliğin sağındaki terimlerin ilgili eşitleri yazıldığında,

$$S_D^{\text{İ}SS} = S^{\text{İ}SS} - S_0^{\text{İ}SS}$$

$$S_D^{\text{İ}SS} = \frac{(n-\boldsymbol{s}+1)!}{(\imath-I)! \cdot (D+I-\boldsymbol{s}+1)} - \frac{(n-\boldsymbol{s})!}{(\imath-I-1)! \cdot (D+I-\boldsymbol{s}+1)}$$

$$S_D^{\text{İ}SS} = \frac{(n-\boldsymbol{s})!}{(\imath-I)! \cdot (D+I-\boldsymbol{s}+1)} \cdot \big((n-\boldsymbol{s}+1)-(\imath-I)\big)$$

$$S_D^{\text{İ}SS} = \frac{(n-\boldsymbol{s})!}{(\imath-I)! \cdot (D+I-\boldsymbol{s}+1)} \cdot (n+I-\boldsymbol{s}-\imath+1)$$

bu eşitlikte $D = n - \imath$ olacağından,

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$$S_D^{\dot{I}SS} = \frac{(n-\boldsymbol{s})!}{(\imath - I)! \cdot (n + I - \boldsymbol{s} - \imath + 1)} \cdot (n + I - \boldsymbol{s} - \imath + 1)$$

$$S_D^{\dot{I}SS} = \frac{(n-\boldsymbol{s})!}{(\imath - I)!}$$

veya $\boldsymbol{s} = s + I$ olacağından,

$$S_D^{\dot{I}SS} = \frac{(n - s - I)!}{(\imath - I)!}$$

veya $S^{\dot{I}SS}$ eşitliğinde $n_i$ üzerinden toplam almadan $n_i = n$ yazıldığında,

$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n_i-s-\Bbbk+1} \frac{(n_i - s - \Bbbk)!}{(n_i - D - \Bbbk)! \cdot (D-s)!}$$

$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n_i-s-\Bbbk+1} \frac{(n - s - \Bbbk)!}{(n - D - \Bbbk)! \cdot (D-s)!}$$

veya

$$S_D^{\dot{I}SS} = \prod_{z=3}^{s} \sum_{((j_i)_1=2)}^{(\ )} \sum_{(j_{ik})_{z-1}=z-1} \sum_{((j_i)_{z-1}=z \vee z=s \Rightarrow s)}^{(\ )} \sum_{n_i=n} \sum_{\left((n_{ik})_1 = n - (j_i)_1 - \sum_{i=1} \Bbbk_i + 1\right)}^{(\ )} \sum_{(n_{ik})_{z-1} = (n_{ik})_{z-2} + (j_{ik})_{z-2} - (j_{ik})_{z-1} - \sum_{i=z-2} \Bbbk_i} \sum_{\left((n_s)_{z-1} = (n_{ik})_{z-1} + (j_{ik})_{z-1} - (j_i)_{z-1} - \sum_{i=z-1} \Bbbk_i\right)}^{(\ )}$$

$$\frac{(D-s)!}{(D - s - (j_i)_1 + 2)!} \cdot \frac{\left(D - s - \left(j_{ik} - j_{sa}^{ik}\right)_{z-1}\right)!}{\left(D - s - (j_i)_{z-1} + (j_{ik})_{z-1} - \left(j_{ik} - j_{sa}^{ik}\right)_{z-1} + 1\right)!} \cdot \frac{(D - (j_i)_{z=s})!}{(D - \boldsymbol{n})!} \cdot$$

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$$\frac{(n-(n_{ik})_1-1)!}{((j_i)_1-2)!\cdot(n-(n_{ik})_1-(j_i)_1+1)!}\cdot$$

$$\frac{((n_{ik})_{z-1}-(n_s)_{z-1}-1)!}{((j_i)_{z-1}-(j_{ik})_{z-1}-1)!\cdot((n_{ik})_{z-1}+(j_{ik})_{z-1}-(n_s)_{z-1}-(j_i)_{z-1})!}\cdot$$

$$\frac{((n_s)_{z=s}-1)!}{((n_s)_{z=s}+(j_i)_{z=s}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-(j_i)_{z=s})!}$$

eşitlikleriyle hesaplanabilir. Bu eşitliklere bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı 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 farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik olasılık*** denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik olasılık $S_D^{\text{İ}SS}$ ile gösterilecektir.

Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde, bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardan, simetrinin ilk bağımlı durumuyla başlayan dağılımlardaki düzgün simetrik olasılığın, ilk düzgün simetrik olasılığın eşitlikleriyle ilişkisi kurulabilir. Bu ilişki,

$$S_D^{\text{İ}SS} = S^{\text{İ}SS} - S_0^{\text{İ}SS}$$

eşitliğinden kurulabilir. Bunun için eşitliğin sağındaki ikinci terimin, simetrisiyle ilişkili $S_0^{\text{İ}SS} = S^{\text{İ}SS}\cdot\frac{(\iota-I)}{(n-s-I+1)}$ eşiti yazıldığında,

$$S_D^{\text{İ}SS} = S^{\text{İ}SS} - S_0^{\text{İ}SS}$$

$$S_D^{\text{İ}SS} = S^{\text{İ}SS} - S^{\text{İ}SS}\cdot\frac{(\iota-I)}{(n-s-I+1)}$$

$$S_D^{\text{İ}SS} = S^{\text{İ}SS}\cdot\left(1-\frac{(\iota-I)}{(n-s-I+1)}\right)$$

$$S_D^{\text{İ}SS} = S^{\text{İ}SS}\cdot\frac{(n-s-I+1)-(\iota-I)}{(n-s-I+1)}$$

$$S_D^{\text{İ}SS} = S^{\text{İ}SS}\cdot\frac{n-s-I+1-\iota+I}{n-s-I+1}$$

$$S_D^{\text{İ}SS} = S^{\text{İ}SS}\cdot\frac{n-\iota-s+1}{n-s-I+1}$$

eşitliği elde edilir.

$D = \boldsymbol{n} < n \wedge I = \Bbbk = 0 \wedge \boldsymbol{s} = s \Rightarrow$

$$S_D^{İss} = \frac{(n-s)!}{\iota!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk = 0 \wedge \boldsymbol{s} = s \Rightarrow$

$$S_D^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n_i-s+1} \frac{(n-s)!}{(n-D)! \cdot (D-s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk = 0 \wedge \boldsymbol{s} = s \Rightarrow$

$$S_D^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n_i-s+1} \frac{(n-s)!}{(n-\boldsymbol{n})! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \Rightarrow$

$$S_D^{İss} = \frac{(n-\boldsymbol{s})!}{(\iota - I)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \Rightarrow$

$$S_D^{İss} = \frac{(n-s-I)!}{(\iota - I)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk \wedge \Bbbk_z : z \geq 1 \Rightarrow$

$$S_D^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n_i-s-\Bbbk+1} \frac{(n_i-s-\Bbbk)!}{(n_i-D-\Bbbk)! \cdot (D-s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk \wedge \Bbbk_z : z \geq 1 \Rightarrow$

$$S_D^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n_i-s-\Bbbk+1} \frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}-s)!}$$

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$D = \boldsymbol{n} < n \land I = \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\text{iss}} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=n)}^{(\;)} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1} \frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land I = \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\text{iss}} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=n)}^{(\;)} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land I = \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\text{iss}} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=n)}^{(\;)} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1} \frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land I = \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\text{iss}} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=n)}^{(\;)} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land I = \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \land j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{\text{iss}} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{(n_i=n)}^{(\;)} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1} \frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land I = \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \land j_{ik} = j^{sa} - 1 \Rightarrow$

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$$S_D^{\dot{I}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{(n_i=n)}^{(\ )} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\dot{I}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(n_i=n)}^{(\ )} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1} \frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\dot{I}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(n_i=n)}^{(\ )} \sum_{n_{sa}=n_i-j^{sa}-\Bbbk+1} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\dot{I}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)} \sum_{n_i=n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\dot{I}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)} \sum_{n_i=n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\dot{I}ss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{\left(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}\right)} \sum_{n_i=n} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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$$\frac{(n_{ik} + j_{ik} - s - \Bbbk - 1)!}{(n_{ik} + j_{ik} - \boldsymbol{n} - \Bbbk - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{İSS} = (D - s)! \cdot \sum_{j^{sa} = j_{sa}} \sum_{(j_{ik} = j^{sa} - 1)} \sum_{n_i = n} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk} \frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{İSS} = (D - s)! \cdot \sum_{j^{sa} = j_{sa}} \sum_{(j_{ik} = j^{sa} - 1)} \sum_{n_i = n} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{İSS} = (D - s)! \cdot \sum_{j^{sa} = j_{sa}} \sum_{(j_{ik} = j^{sa} - 1)} \sum_{n_i = n} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk} \frac{(n_{ik} + j_{ik} - s - \Bbbk - 1)!}{(n_{ik} + j_{ik} - \boldsymbol{n} - \Bbbk - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{İSS} = (D - s)! \cdot \sum_{j_s = 1} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})} \sum_{(n_i = n)}^{(\ )} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk} \left( \frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!} \right)_{j^{sa}}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{İSS} = (D - s)! \cdot \sum_{j_s = 1} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})}$$

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$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

$$S_D^{\dot{I}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i+j_s+j_{sa}-j^{sa}-s-\Bbbk-j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}+j_s+j_{sa}-j^{sa}-s-j_{sa}^{s})!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

$$S_D^{\dot{I}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i+2\cdot j_s+j_{sa}+j_{sa}^{ik}-j_{ik}-j^{sa}-s-\Bbbk-2\cdot j_{sa}^{s}\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+2\cdot j_s+j_{sa}+j_{sa}^{ik}-j_{ik}-j^{sa}-s-2\cdot j_{sa}^{s}\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

$$S_D^{\dot{I}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i+j^{sa}+j_{sa}^{s}-j_s-j_{sa}-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}+j^{sa}+j_{sa}^{s}-j_s-j_{sa}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

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$$S_D^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i + 2 \cdot j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \Bbbk - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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$$\frac{\left(n_i + 2 \cdot j_{ik} + j_{sa}^{s} + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_{ik} + j_{sa}^{s} + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \lor I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i + j_{ik} + j_{sa} - j^{sa} - s - \Bbbk - j_{sa}^{ik}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik}\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \lor I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \land j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\left(\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}\right)_{j^{sa}}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \land j_{ik} = j^{sa} - 1 \Rightarrow$

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$$S_D^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i+j_s+j_{sa}-j_{ik}-s-\Bbbk-j_{sa}^{s}-1)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}+j_s+j_{sa}-j_{ik}-s-j_{sa}^{s}-1)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}+j_{sa}^{ik}-2\cdot j^{sa}-s-\Bbbk-2\cdot j_{sa}^{s}+1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot \left(\boldsymbol{n}+2\cdot j_s+j_{sa}+j_{sa}^{ik}-2\cdot j^{sa}-s-2\cdot j_{sa}^{s}+1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i+j_{ik}+j_{sa}^{s}-j_s-j_{sa}-s-\Bbbk+1)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}^{s}-j_s-j_{sa}-s+1)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\!:z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$S_D^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i+j^{sa}+j_{sa}^{s}+j_{sa}^{ik}-j_s-2\cdot j_{sa}-s-\Bbbk+1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j^{sa}+j_{sa}^{s}+j_{sa}^{ik}-j_s-2\cdot j_{sa}-s+1\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\!:z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$S_D^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i+j_s+j_{sa}^{ik}-j_{ik}-s-\Bbbk-j_{sa}^{s}\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_s+j_{sa}^{ik}-j_{ik}-s-j_{sa}^{s}\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\!:z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$S_D^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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$$\frac{\left(n_i + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{iss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - \mathbb{k} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{iss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{\left(n_i + j_{sa} - s - \mathbb{k} - j_{sa}^{ik} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{sa} - s - j_{sa}^{ik} - 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{iss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{\left(n_i + j_{sa}^{ik} - j_{sa} - s - \mathbb{k} + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - j_{sa} - s + 1\right)!}$$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\left(\frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})! \cdot (\boldsymbol{n}-s)!}\right)_{j^{sa}}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\left(\frac{(n_i-s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)! \cdot (\boldsymbol{n}-s)!}\right)_{j^{sa}}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

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$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

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$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\wedge\Bbbk=\Bbbk_2\Rightarrow$

$$S_D^{\text{iss}}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_i-s-\Bbbk_1-\Bbbk_2)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\wedge\Bbbk=\Bbbk_2\Rightarrow$

$$S_D^{\text{iss}}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_i+j_s+j_{sa}-j^{sa}-s-\Bbbk-j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}+j_s+j_{sa}-j^{sa}-s-j_{sa}^{s})!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\vee$

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$$S_D^{\text{iss}}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

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$$\frac{(n_i + j_s + j_{sa} - j^{sa} - s - \Bbbk_1 - \Bbbk_2 - j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} + j_s + j_{sa} - j^{sa} - s - j_{sa}^{s})!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S_D^{İSS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - \Bbbk - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - \Bbbk_1 - \Bbbk_2 - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$S_D^{İSS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i+j^{sa}+j^{s}_{sa}-j_s-j_{sa}-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}+j^{sa}+j^{s}_{sa}-j_s-j_{sa}-s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i+j^{sa}+j^{s}_{sa}-j_s-j_{sa}-s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot(\boldsymbol{n}+j^{sa}+j^{s}_{sa}-j_s-j_{sa}-s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$$S_D^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{\left(n_i+2\cdot j^{sa}+j^{s}_{sa}+j^{ik}_{sa}-j_s-j_{ik}-2\cdot j_{sa}-s-\mathbb{k}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+2\cdot j^{sa}+j^{s}_{sa}+j^{ik}_{sa}-j_s-j_{ik}-2\cdot j_{sa}-s\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

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$$S_D^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{\left(n_i+2\cdot j^{sa}+j_{sa}^{s}+j_{sa}^{ik}-j_s-j_{ik}-2\cdot j_{sa}-s-\mathbb{k}_1-\mathbb{k}_2\right)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot\left(\boldsymbol{n}+2\cdot j^{sa}+j_{sa}^{s}+j_{sa}^{ik}-j_s-j_{ik}-2\cdot j_{sa}-s\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=1\wedge\mathbb{k}=\mathbb{k}_2\Rightarrow$

$$S_D^{\text{İ}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{\left(n_i+j_s+j_{sa}^{ik}-j_{ik}-s-\mathbb{k}-j_{sa}^{s}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_s+j_{sa}^{ik}-j_{ik}-s-j_{sa}^{s}\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

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$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=1\wedge\mathbb{k}=\mathbb{k}_2\Rightarrow$

$$S_D^{\text{İ}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{\left(n_i+j_s+j_{sa}^{ik}-j_{ik}-s-\mathbb{k}_1-\mathbb{k}_2-j_{sa}^{s}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot\left(\boldsymbol{n}+j_s+j_{sa}^{ik}-j_{ik}-s-j_{sa}^{s}\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

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$$S_D^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$S_D^{\text{İ}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\left(\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}\right)_{j^{sa}}$$

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$$\left(\frac{(n_i - s - \Bbbk_1 - \Bbbk_2)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}\right)_{j^{sa}}$$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \frac{(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa} - s - \Bbbk + 1)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa} - s + 1)!}$$

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$\Bbbk_z : z = 1 \land \Bbbk = \Bbbk_2 \land j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \frac{\left(n_i + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 2 \land \Bbbk = \Bbbk_1 + \Bbbk_2 \land j_{ik} = j^{sa} - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk_2 > 0 \land \Bbbk_1 = 0 \land \boldsymbol{s} = s + \Bbbk \land$

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$\Bbbk_z: z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{\left(n_i + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \Bbbk_1 - \Bbbk_2 + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z: z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

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$$S_D^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j^{sa} - s - \Bbbk - j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j^{sa} - s - j_{sa}^{s} + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z: z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \vee$

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$$S_D^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

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$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j^{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j^{sa} - s - j_{sa}^{s} + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{\left(n_i + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{\left(n_i + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$

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$\mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}^{s}+j_{sa}-j_s-2\cdot j_{sa}^{ik}-s-\Bbbk-1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}^{s}+j_{sa}-j_s-2\cdot j_{sa}^{ik}-s-1\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge$

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$$\frac{\left(n_i+j_{ik}+j_{sa}^{s}+j_{sa}-j_s-2\cdot j_{sa}^{ik}-s-\Bbbk_1-\Bbbk_2-1\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}^{s}+j_{sa}-j_s-2\cdot j_{sa}^{ik}-s-1\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z\colon z=1\wedge\Bbbk=\Bbbk_2\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$S_D^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{\left(n_i+j_{sa}-s-\Bbbk-j_{sa}^{ik}-1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{sa}-s-j_{sa}^{ik}-1\right)!}$$

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$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 2 \land \Bbbk = \Bbbk_1 + \Bbbk_2 \land j_{ik} = j^{sa} - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk_2 > 0 \land \Bbbk_1 = 0 \land \boldsymbol{s} = s + \Bbbk \land$

$\Bbbk_z : z = 1 \land \Bbbk = \Bbbk_2 \land j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{()} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_i + j_{sa} - s - \Bbbk_1 - \Bbbk_2 - j_{sa}^{ik} - 1)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} + j_{sa} - s - j_{sa}^{ik} - 1)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 2 \land \Bbbk = \Bbbk_1 + \Bbbk_2 \land j_{ik} = j^{sa} - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk_2 > 0 \land \Bbbk_1 = 0 \land \boldsymbol{s} = s + \Bbbk \land$

$\Bbbk_z : z = 1 \land \Bbbk = \Bbbk_2 \land j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{()} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_i + j_{sa}^{ik} - j_{sa} - s - \Bbbk + 1)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_{sa}^{ik} - j_{sa} - s + 1)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 2 \land \Bbbk = \Bbbk_1 + \Bbbk_2 \land j_{ik} = j^{sa} - 1 \lor$

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$$S_D^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\sum_{(n_i=n)}^{(\ )}\ \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{\left(n_i+j_{sa}^{ik}-j_{sa}-s-\mathbb{k}_1-\mathbb{k}_2+1\right)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-j_{sa}-s+1\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=1\Rightarrow$

$$S_D^{\text{İ}SS}=(D-s)!\cdot\sum_{j_s=1}\ \sum_{j_{ik}=j_{sa}^{ik}}\ \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i+j_s-s-\mathbb{k}-j_{sa}^{s})!}{(n_i+j_s-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$S_D^{\text{İ}SS}=(D-s)!\cdot\sum_{j_s=1}\ \sum_{j_{ik}=j_{sa}^{ik}}\ \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i+j_s-s-\mathbb{k}-j_{sa}^{s})!}{(n_i+j_s-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=1\wedge\mathbb{k}=\mathbb{k}_2\Rightarrow$

$$S_D^{\text{İ}SS}=(D-s)!\cdot\sum_{j_s=1}\ \sum_{j_{ik}=j_{sa}^{ik}}\ \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )}\ \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

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$$\frac{(n_i + j_s - s - \mathbb{k} - j_{sa}^s)!}{(n_i + j_s - \boldsymbol{n} - \mathbb{k} - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$$S_D^{iss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j_s - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s)!}{(n_i + j_s - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{iss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j_s - s - \mathbb{k} - j_{sa}^s)!}{(n_i + j_s - \boldsymbol{n} - \mathbb{k} - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$

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$\mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{iss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \frac{(n_i+j_s-s-\Bbbk_1-\Bbbk_2-j_{sa}^{s})!}{(n_i+j_s-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z: z=1\Rightarrow$

$$S_D^{\text{İ}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_{ik}+j_{ik}-j_s-s-\Bbbk)!}{(n_{ik}+j_{ik}-\boldsymbol{n}-\Bbbk-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z: z=1\Rightarrow$

$$S_D^{\text{İ}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_{ik}+j_{sa}^{ik}-s-\Bbbk-j_{sa}^{s}\right)!}{(n_{ik}+j_{ik}-\boldsymbol{n}-\Bbbk-j_{sa}^{s})!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j_{ik}\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z: z=1\Rightarrow$

$$S_D^{\text{İ}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(2\cdot n_i-n_{ik}-j_s-j_{ik}-s-\Bbbk+2)!}{(2\cdot n_i-n_{ik}-j_{ik}-\boldsymbol{n}-\Bbbk-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z: z=1\Rightarrow$

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$$S_D^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(2 \cdot n_i + j_s - n_{ik} - j_{ik} - s - \mathbb{k})!}{(2 \cdot n_i + 2 \cdot j_s - n_{ik} - j_{ik} - \boldsymbol{n} - \mathbb{k} - j_{sa}^{s})! \cdot (\boldsymbol{n} + j_{sa}^{s} - s - j_s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{ik} + j^{sa} - j_s - s - \mathbb{k} - 1)!}{(n_{ik} + j^{sa} - \boldsymbol{n} - \mathbb{k} - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$S_D^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(2\cdot n_i - n_{ik} - j_s - j^{sa} - s - \Bbbk + 3)!}{(2\cdot n_i - n_{ik} - j^{sa} - \boldsymbol{n} - \Bbbk - j_{sa}^{s} + 3)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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$$\frac{(2\cdot n_i + j_s - n_{ik} - j^{sa} - s - \Bbbk + 1)!}{(2\cdot n_i + 2\cdot j_s - n_{ik} - j^{sa} - \boldsymbol{n} - \Bbbk - j_{sa}^{s} + 1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S_D^{İSS} = (D-s)!\cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_{ik} + j_{ik} - j_s - s - \Bbbk_2)!}{(n_{ik} + j_{ik} - \boldsymbol{n} - \Bbbk_2 - j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$S_D^{İSS} = (D-s)!\cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$\sum_{(n_i=n)}^{(\ )}\ \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}\frac{(n_{ik}+j_{ik}+\mathbb{k}_1-j_s-s-\mathbb{k})!}{(n_{ik}+j_{ik}+\mathbb{k}_1-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z{:}\,z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

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$$S_D^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\ \sum_{j_{ik}=j_{sa}^{ik}}\ \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )}\ \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}\frac{\left(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}_2-j_{sa}^{s}\right)!}{(n_{ik}+j_{ik}-\boldsymbol{n}-\mathbb{k}_2-j_{sa}^{s})!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j_{ik}\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

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$$S_D^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(2\cdot n_i - n_{ik} - j_s - j_{ik} - s - 2\cdot \mathbb{k}_1 - \mathbb{k}_2 + 2)!}{(2\cdot n_i - n_{ik} - j_{ik} - \boldsymbol{n} - 2\cdot \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^{s} + 2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

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$$\frac{(2\cdot n_i + \mathbb{k}_2 - n_{ik} - j_s - j_{ik} - s - 2\cdot \mathbb{k} + 2)!}{(2\cdot n_i + \mathbb{k}_2 - n_{ik} - j_{ik} - \boldsymbol{n} - 2\cdot \mathbb{k} - j_{sa}^{s} + 2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$S_D^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\frac{(n_{ik} + j^{sa} - j_s - s - \mathbb{k}_2 - 1)!}{(n_{ik} + j^{sa} - \boldsymbol{n} - \mathbb{k}_2 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z\colon z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{İss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\frac{(n_{ik} + j^{sa} + \Bbbk_1 - j_s - s - \Bbbk - 1)!}{(n_{ik} + j^{sa} + \Bbbk_1 - \boldsymbol{n} - \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\frac{\left(n_{ik} + j_{sa}^{ik} - s - \Bbbk_2 - j_{sa}^{s}\right)!}{(n_{ik} + j^{sa} - \boldsymbol{n} - \Bbbk_2 - j_{sa}^{s} - 1)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - s - j^{sa} + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

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$$\frac{\left(n_{ik}+j_{sa}^{ik}+\mathbb{k}_1-s-\mathbb{k}-j_{sa}^{s}\right)!}{(n_{ik}+j^{sa}+\mathbb{k}_1-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s}-1)!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j^{sa}+1\right)!}$$

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$$S_D^{İSS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

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$$\frac{(2\cdot n_i-n_{ik}-j_s-j^{sa}-s-2\cdot\mathbb{k}_1-\mathbb{k}_2+3)!}{(2\cdot n_i-n_{ik}-j^{sa}-\boldsymbol{n}-2\cdot\mathbb{k}_1-\mathbb{k}_2-j_{sa}^{s}+3)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

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$$\frac{(2\cdot n_i+\mathbb{k}_2-n_{ik}-j_s-j^{sa}-s-2\cdot\mathbb{k}+3)!}{(2\cdot n_i+\mathbb{k}_2-n_{ik}-j^{sa}-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s}+3)!\cdot(\boldsymbol{n}-s)!}$$

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$$S_D^{İSS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

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$$\frac{(n_{sa} + j^{sa} - j_s - s)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\dot{\mathrm{I}}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^{s})!}{(n_{sa} + j^{sa} - \boldsymbol{n} - j_{sa}^{s})! \cdot (\boldsymbol{n} + j_{sa} - s - j^{sa})!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j^{sa} - s - 2 \cdot \Bbbk + 2)!}{(2 \cdot n_i - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} + 2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\dot{\mathrm{I}}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 2 \cdot \Bbbk + 3)!}{(3 \cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} + 3)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(2\cdot n_i+j_s-n_{sa}-j^{sa}-s-2\cdot\Bbbk)!}{(2\cdot n_i+2\cdot j_s-n_{sa}-j^{sa}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\Rightarrow$

$$S_D^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_{sa}-j_{ik}-j^{sa}-s-2\cdot\Bbbk)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_{sa}-j_{ik}-j^{sa}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\Rightarrow$

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$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(2\cdot n_{ik}+2\cdot j_{ik}-n_{sa}-j_s-j^{sa}-s-2\cdot\Bbbk)!}{(2\cdot n_{ik}+2\cdot j_{ik}-n_{sa}-j^{sa}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\Rightarrow$

$$S_D^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i+n_{ik}+j_{ik}-n_{sa}-j^{sa}-s-2\cdot\Bbbk)!}{(n_i+n_{ik}+j_s+j_{ik}-n_{sa}-j^{sa}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

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$$S_D^{\dot{\mathrm{I}}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{sa}+j_{ik}-j_s-s+1)!}{(n_{sa}+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{\dot{\mathrm{I}}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{sa}+j_{sa}-s-j_{sa}^{s})!}{(n_{sa}+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)! \cdot (\boldsymbol{n}+j_{sa}-s-j_{ik}-1)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j_{ik} - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_i - n_{sa} - j_{ik} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} + 1)! \cdot (\boldsymbol{n}-s)!}$$

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$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(3\cdot n_i-n_{ik}-n_{sa}-j_s-2\cdot j^{sa}-s-2\cdot\mathbb{k}+4)!}{(3\cdot n_i-n_{ik}-n_{sa}-2\cdot j^{sa}-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s}+4)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z\!:z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - s - 2 \cdot \mathbb{k} + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{iss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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$$S_D^{iss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_{sa} - j_s - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(n_i + n_{ik} - n_{sa} - s - 2 \cdot \mathbb{k} - 1)!}{(n_i + n_{ik} + j_s - n_{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S_D^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_{sa}+j^{sa}-j_s-s)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-j_{sa}^{s})! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$\frac{(n_{sa}+j_{sa}-s-j_{sa}^{s})!}{(n_{sa}+j^{sa}-\boldsymbol{n}-j_{sa}^{s})! \cdot (\boldsymbol{n}+j_{sa}-s-j^{sa})!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^s + 2)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 3)!}{(3 \cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - \boldsymbol{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s + 3)! \cdot (\boldsymbol{n} - s)!}$$

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$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$$\frac{(2 \cdot n_i + j_s - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(2 \cdot n_i + j_s - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$$S_D^{İSS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k}_2)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k}_2 - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

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$$S_D^{İSS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \mathbb{k}_1 - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \mathbb{k}_1 - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

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$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 2 \land \Bbbk = \Bbbk_1 + \Bbbk_2 \lor$

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$$\frac{(n_i + n_{ik} + j_{ik} - n_{sa} - j^{sa} - s - 2 \cdot \Bbbk_2 - \Bbbk_1)!}{(n_i + n_{ik} + j_s + j_{ik} - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \Bbbk_2 - \Bbbk_1 - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

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$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

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$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j_{ik} - \boldsymbol{n} - j_{sa}^s + 1)! \cdot (\boldsymbol{n} + j_{sa} - s - j_{ik} - 1)!}$$

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$$S_D^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(2\cdot n_{ik}+j_{ik}+2\cdot\Bbbk_1-n_{sa}-j_s-s-2\cdot\Bbbk-1)!}{(2\cdot n_{ik}+j_{ik}+2\cdot\Bbbk_1-n_{sa}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^s-1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z: z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_i+n_{ik}-n_{sa}-s-2\cdot\Bbbk_2-\Bbbk_1-1)!}{(n_i+n_{ik}+j_s-n_{sa}-\boldsymbol{n}-2\cdot\Bbbk_2-\Bbbk_1-j_{sa}^s-1)!\cdot(\boldsymbol{n}-s)!}$$

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$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z{:}\,z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z{:}\,z=1\wedge\Bbbk=\Bbbk_2\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$S_D^{\text{İ}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\frac{(n_i+n_{ik}+\Bbbk_1-n_{sa}-s-2\cdot\Bbbk-1)!}{(n_i+n_{ik}+j_s+\Bbbk_1-n_{sa}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z{:}\,z=1\Rightarrow$

$$S_D^{\text{İ}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}\left(\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\right)_{j_i}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z{:}\,z=1\Rightarrow$

$$S_D^{\text{İ}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z{:}\,z=1\Rightarrow$

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$$S_D^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(n_i+j_s-j_i-\Bbbk-j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}+j_s-j_i-j_{sa}^{s})!}$$

$$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$$

$$S_D^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_i+2 \cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk-2 \cdot j_{sa}^{s}\right)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot \left(\boldsymbol{n}+2 \cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2 \cdot j_{sa}^{s}\right)!}$$

$$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$$

$$S_D^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(n_i+j_i+j_{sa}^{s}-j_s-2 \cdot s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}+j_i+j_{sa}^{s}-j_s-2 \cdot s)!}$$

$$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$$

$$S_D^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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$$\frac{\left(n_i + 2 \cdot j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{İSS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \Bbbk - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{İSS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{İSS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_i + 2 \cdot j_{ik} + j_{sa}^{s} - j_s - j_i - 2 \cdot j_{sa}^{ik} - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_{ik} + j_{sa}^{s} - j_s - j_i - 2 \cdot j_{sa}^{ik}\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{İSS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_i+j_{ik}-j_i-\Bbbk-j_{sa}^{ik}\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}-j_i-j_{sa}^{ik}\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\Rightarrow$

$$S_D^{\text{İ}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_i+j_i+j_{sa}^{ik}-j_{ik}-2\cdot s-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_i+j_{sa}^{ik}-j_{ik}-2\cdot s\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\wedge j_{ik}=j_i-1\Rightarrow$

$$S_D^{\text{İ}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \left(\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\right)_{j_i}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\wedge j_{ik}=j_i-1\Rightarrow$

$$S_D^{\text{İ}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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$$\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{iss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(n_i + j_s - j_{ik} - \Bbbk - j_{sa}^s - 1)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_s - j_{ik} - j_{sa}^s - 1)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{iss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \Bbbk - 2 \cdot j_{sa}^s + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^s + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{iss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot s - \Bbbk + 1)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot s + 1)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_i + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \Bbbk - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_i + j_i + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

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$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{\left(n_i + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^s - j_s - 2 \cdot j_{sa}^{ik} - 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z\!: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{\left(n_i - \mathbb{k} - j_{sa}^{ik} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} - j_{sa}^{ik} - 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z\!: z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{\left(n_i + j_{sa}^{ik} - 2 \cdot s - \mathbb{k} + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - 2 \cdot s + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z\!: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z\!: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

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$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\left(\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\right)_{j_i}$$

$D=\boldsymbol{n}<n \wedge \Bbbk=0 \wedge \boldsymbol{s}=s \vee$

$I=\Bbbk \wedge s>1 \wedge \Bbbk>0 \wedge \boldsymbol{s}=s+\Bbbk \wedge \Bbbk_z: z=2 \wedge \Bbbk=\Bbbk_1+\Bbbk_2 \vee$

$I=\Bbbk \wedge s>1 \wedge \Bbbk_2>0 \wedge \Bbbk_1=0 \wedge \boldsymbol{s}=s+\Bbbk \wedge \Bbbk_z: z=1 \wedge \Bbbk=\Bbbk_2 \Rightarrow$

$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\left(\frac{(n_i-s-\Bbbk_1-\Bbbk_2)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot(\boldsymbol{n}-s)!}\right)_{j_i}$$

$D=\boldsymbol{n}<n \wedge \Bbbk=0 \wedge \boldsymbol{s}=s \vee$

$I=\Bbbk \wedge s>1 \wedge \Bbbk>0 \wedge \boldsymbol{s}=s+\Bbbk \wedge \Bbbk_z: z=2 \wedge \Bbbk=\Bbbk_1+\Bbbk_2 \vee$

$I=\Bbbk \wedge s>1 \wedge \Bbbk_2>0 \wedge \Bbbk_1=0 \wedge \boldsymbol{s}=s+\Bbbk \wedge \Bbbk_z: z=1 \wedge \Bbbk=\Bbbk_2 \Rightarrow$

$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\;)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n \wedge \Bbbk=0 \wedge \boldsymbol{s}=s \vee$

$I=\Bbbk \wedge s>1 \wedge \Bbbk>0 \wedge \boldsymbol{s}=s+\Bbbk \wedge \Bbbk_z: z=2 \wedge \Bbbk=\Bbbk_1+\Bbbk_2 \vee$

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$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$$S_D^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\boldsymbol{n} - s)!}$$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\left(\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}\right)_{j_i}$$

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$$S_D^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\left(\frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\boldsymbol{n} - s)!}\right)_{j_i}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \Bbbk - 2 \cdot j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^{s} + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \Bbbk_1 - \Bbbk_2 - 2 \cdot j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^{s} + 1\right)!}$$

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$$\frac{(n_i + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot s - \mathbb{k} + 1)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot s + 1)!}$$

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$$S_D^{iss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot s + 1)!}$$

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$$\frac{\left(n_i + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k} + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s + 1\right)!}$$

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$$\frac{\left(n_i + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s - \Bbbk_1 - \Bbbk_2 + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s + 1\right)!}$$

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$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_i - s - \Bbbk - j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^{s} + 1\right)!}$$

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$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_i - s - \Bbbk_1 - \Bbbk_2 - j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^{s} + 1\right)!}$$

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$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j_i - 1 \lor$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \Bbbk - 1)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

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$$\frac{(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \Bbbk_1 - \Bbbk_2 - 1)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1)!}$$

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$$\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}\frac{\left(n_i+j_{ik}+j_{sa}^{s}-j_s-2\cdot j_{sa}^{ik}-\mathbb{k}-1\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}^{s}-j_s-2\cdot j_{sa}^{ik}-1\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

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$$\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}\frac{\left(n_i-\mathbb{k}-j_{sa}^{ik}-1\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}-j_{sa}^{ik}-1\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

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$$\frac{\left(n_i - \Bbbk_1 - \Bbbk_2 - j_{sa}^{ik} - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} - j_{sa}^{ik} - 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{\left(n_i + j_{sa}^{ik} - 2 \cdot s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - 2 \cdot s + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{\left(n_i + j_{sa}^{ik} - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - 2 \cdot s + 1\right)!}$$

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$$\frac{(2\cdot n_i - n_{ik} - j_s - j_i - s - \mathbb{k} + 3)!}{(2\cdot n_i - n_{ik} - j_i - \boldsymbol{n} - \mathbb{k} - j_{sa}^{s} + 3)!\cdot(\boldsymbol{n} - s)!}$$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{\left(n_{ik}+j_{sa}^{ik}-s-\Bbbk_2-j_{sa}^s\right)!}{(n_{ik}+j_i-\boldsymbol{n}-\Bbbk_2-j_{sa}^s-1)! \cdot \left(\boldsymbol{n}+j_{sa}^{ik}-s-j_i+1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{\left(n_{ik}+j_{sa}^{ik}+\Bbbk_1-s-\Bbbk-j_{sa}^s\right)!}{(n_{ik}+j_i+\Bbbk_1-\boldsymbol{n}-\Bbbk-j_{sa}^s-1)! \cdot \left(\boldsymbol{n}+j_{sa}^{ik}-s-j_i+1\right)!}$$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$

$$S_D^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(n_s + j_i - j_s - s)!}{(n_s + j_i - \boldsymbol{n} - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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$$\frac{(2\cdot n_i+j_s-n_s-j_i-s-2\cdot\Bbbk)!}{(2\cdot n_i+2\cdot j_s-n_s-j_i-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

$$S_D^{İSS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-j_{ik}-j_i-s-2\cdot\Bbbk)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-j_{ik}-j_i-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

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$$\frac{(2\cdot n_{ik}+2\cdot j_{ik}-n_s-j_s-j_i-s-2\cdot\Bbbk)!}{(2\cdot n_{ik}+2\cdot j_{ik}-n_s-j_i-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

$$S_D^{İSS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(n_i+n_{ik}+j_{ik}-n_s-j_i-s-2\cdot\Bbbk)!}{(n_i+n_{ik}+j_s+j_{ik}-n_s-j_i-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

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$$S_D^{İSS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

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$$\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}\frac{(n_s+j_{ik}-j_s-s+1)!}{(n_s+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

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$$S_D^{\text{İ}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}\frac{(n_s-j_{sa}^{s})!}{(n_s+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-j_{ik}-1)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

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$$S_D^{\text{İ}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

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$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-2\cdot j_i-s-2\cdot\mathbb{k}+4)!}{(3\cdot n_i-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s}+4)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z{:}\,z=1\wedge j_{ik}=j_i-1\Rightarrow$

$$S_D^{iss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-2\cdot j_{ik}-s-2\cdot\mathbb{k}+2)!}{(3\cdot n_i-n_{ik}-n_s-2\cdot j_{ik}-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

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$$S_D^{iss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(2\cdot n_i+j_s-n_s-j_{ik}-s-2\cdot\mathbb{k}-1)!}{(2\cdot n_i+2\cdot j_s-n_s-j_{ik}-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot \Bbbk - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot \Bbbk - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_s - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(n_i + n_{ik} - n_s - s - 2 \cdot \Bbbk - 1)!}{(n_i + n_{ik} + j_s - n_s - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\boldsymbol{n}-j_{sa}^s)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_s-j_{sa}^s)!}{(n_s+j_i-\boldsymbol{n}-j_{sa}^s)! \cdot (\boldsymbol{n}-j_i)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

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$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 2)!}{(2 \cdot n_i - n_s - j_i - \boldsymbol{n} - 2 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 - j_{sa}^s + 2)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

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$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_i - n_s - j_s - j_i - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_s - j_i - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} + 2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_s - j_s - j_{ik} - j_i - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 3)!}{(3 \cdot n_i - n_{ik} - n_s - j_{ik} - j_i - \boldsymbol{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^{s} + 3)! \cdot (\boldsymbol{n} - s)!}$$

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$$S_D^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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$$\frac{(n_i+n_{ik}+j_{ik}-n_s-j_i-s-2\cdot\mathbb{k}_2-\mathbb{k}_1)!}{(n_i+n_{ik}+j_s+j_{ik}-n_s-j_i-\boldsymbol{n}-2\cdot\mathbb{k}_2-\mathbb{k}_1-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(n_i+n_{ik}+j_{ik}+\mathbb{k}_1-n_s-j_i-s-2\cdot\mathbb{k})!}{(n_i+n_{ik}+j_s+j_{ik}+\mathbb{k}_1-n_s-j_i-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n \wedge \mathbb{k}=0 \wedge \boldsymbol{s}=s \wedge j_{ik}=j_i-1 \vee$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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$$\frac{(n_s - j_{sa}^s)!}{(n_s + j_{ik} - \boldsymbol{n} - j_{sa}^s + 1)! \cdot (\boldsymbol{n} - j_{ik} - 1)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{(2\cdot n_i - n_s - j_s - j_{ik} - s - 2\cdot\mathbb{k} + 1)!}{(2\cdot n_i - n_s - j_{ik} - \boldsymbol{n} - 2\cdot\mathbb{k} - j_{sa}^{s} + 1)!\cdot(\boldsymbol{n}-s)!}$$

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$$S_D^{\text{iss}} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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$$S_D^{\text{iss}} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - \boldsymbol{n} - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land \boldsymbol{s} = s \land j_{ik} = j_i - 1 \lor$

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$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z\!: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z\!: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$S_D^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-2\cdot j_{ik}-s-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2-1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-2\cdot j_{ik}-\boldsymbol{n}-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

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$$S_D^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-2\cdot j_i-s-2\cdot\mathbb{k}-\mathbb{k}_1+1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-2\cdot\mathbb{k}-\mathbb{k}_1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-2\cdot j_{ik}-s-2\cdot\mathbb{k}-\mathbb{k}_1-1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-2\cdot j_{ik}-\boldsymbol{n}-2\cdot\mathbb{k}-\mathbb{k}_1-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot \Bbbk_2 - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_s - \boldsymbol{n} - 2 \cdot \Bbbk_2 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$S_D^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \Bbbk_1 - n_s - j_s - s - 2 \cdot \Bbbk - 1)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \Bbbk_1 - n_s - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$S_D^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=n)}^{(\ )} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_i + n_{ik} - n_s - s - 2 \cdot \Bbbk_2 - \Bbbk_1 - 1)!}{(n_i + n_{ik} + j_s - n_s - \boldsymbol{n} - 2 \cdot \Bbbk_2 - \Bbbk_1 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{iss} = (D-s)! \cdot \frac{n - \iota - s + 1}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \left(\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}\right)_{j^{sa}}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$S_D^{\dot{I}ss} = (D-s)! \cdot \frac{n-\imath-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i+j_s+j_{sa}-j^{sa}-s-\Bbbk-j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}+j_s+j_{sa}-j^{sa}-s-j_{sa}^{s})!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}+j_{sa}^{ik}-j_{ik}-j^{sa}-s-\Bbbk-2\cdot j_{sa}^{s}\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+2\cdot j_s+j_{sa}+j_{sa}^{ik}-j_{ik}-j^{sa}-s-2\cdot j_{sa}^{s}\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

$$S_D^{\dot{I}ss} = (D-s)! \cdot \frac{n-\imath-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_i+j^{sa}+j_{sa}^{s}-j_s-j_{sa}-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}+j^{sa}+j_{sa}^{s}-j_s-j_{sa}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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$$\frac{\left(n_i + 2 \cdot j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\text{iss}} = (D - s)! \cdot \frac{n - \iota - s + 1}{n - s - I + 1} \cdot \sum_{j_s = 1} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})}$$

$$\sum_{(n_i = \boldsymbol{n} + \Bbbk)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk}$$

$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \Bbbk - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\sum_{(n_i = \boldsymbol{n} + \Bbbk)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk}$$

$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\sum_{(n_i = \boldsymbol{n} + \Bbbk)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk}$$

$$\frac{\left(n_i + 2 \cdot j_{ik} + j_{sa}^{s} + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_{ik} + j_{sa}^{s} + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\text{iss}} = (D - s)! \cdot \frac{n - \iota - s + 1}{n - s - I + 1} \cdot \sum_{j_s = 1} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-\Bbbk-j_{sa}^{ik}\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\Rightarrow$

$$S_D^{iss}=(D-s)!\cdot\frac{n-\iota-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i+j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}-s-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}-s\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \left(\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\right)_{j^{sa}}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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$$\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{iss} = (D - s)! \cdot \frac{n - \iota - s + 1}{n - s - I + 1} \cdot \sum_{j_s = 1} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{ik} + 1)}$$

$$\sum_{(n_i = \boldsymbol{n} + \Bbbk)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk}$$

$$\frac{(n_i + j_s + j_{sa} - j_{ik} - s - \Bbbk - j_{sa}^s - 1)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_s + j_{sa} - j_{ik} - s - j_{sa}^s - 1)!}$$

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \Bbbk - 2 \cdot j_{sa}^s + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^s + 1\right)!}$$

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$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa} - s - \Bbbk + 1)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa}^s - j_s - j_{sa} - s + 1)!}$$

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$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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$$S_D^{\dot{\imath}ss} = (D-s)! \cdot \frac{n-\imath-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{\left(n_i+j_{ik}+j_{sa}^s+j_{sa}-j_s-2\cdot j_{sa}^{ik}-s-\Bbbk-1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}^s+j_{sa}-j_s-2\cdot j_{sa}^{ik}-s-1\right)!}$$

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$$S_D^{\dot{I}ss} = (D-s)! \cdot \frac{n-\iota-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\left(\frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})! \cdot (\boldsymbol{n}-s)!}\right)_{j^{sa}}$$

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$$\left(\frac{(n_i-s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)! \cdot (\boldsymbol{n}-s)!}\right)_{j^{sa}}$$

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$I=\Bbbk\wedge s>1\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\wedge\Bbbk=\Bbbk_2\Rightarrow$

$$S_D^{\mathrm{iss}}=(D-s)!\cdot\frac{n-\iota-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(n_i-s-\Bbbk_1-\Bbbk_2)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(n_i+j_s+j_{sa}-j^{sa}-s-\Bbbk_1-\Bbbk_2-j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot(\boldsymbol{n}+j_s+j_{sa}-j^{sa}-s-j_{sa}^{s})!}$$

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$$\frac{\left(n_i + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - \mathbb{k}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + 2 \cdot j^{sa} + j_{sa}^s + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s\right)!}$$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$$S_D^{İss} = (D-s)! \cdot \frac{n - \imath - s + 1}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

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$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \mathbb{k}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s\right)!}$$

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$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \mathbb{k}_1 - \mathbb{k}_2\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s\right)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{\left(n_i+2\cdot j_{ik}+j_{sa}^{s}+j_{sa}-j_s-j^{sa}-2\cdot j_{sa}^{ik}-s-\Bbbk_1-\Bbbk_2\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+2\cdot j_{ik}+j_{sa}^{s}+j_{sa}-j_s-j^{sa}-2\cdot j_{sa}^{ik}-s\right)!}$$

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$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-\Bbbk_1-\Bbbk_2-j_{sa}^{ik}\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}$$

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$$S_D^{\text{iss}} = (D-s)! \cdot \frac{n-\iota-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \frac{\left(n_i+j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}-s-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot \left(\boldsymbol{n}+j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}-s\right)!}$$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\left( \frac{(n_i - s - \Bbbk_1 - \Bbbk_2)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} - s)!} \right)_{j^{sa}}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i-s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot(\boldsymbol{n}-s)!}$$

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$\mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{İSS} = (D-s)! \cdot \frac{n-\iota-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

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$$\frac{(n_i+j_{ik}+j_{sa}^{s}-j_s-j_{sa}-s-\Bbbk+1)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}^{s}-j_s-j_{sa}-s+1)!}$$

$D=\boldsymbol{n}<n\land\Bbbk=0\land\boldsymbol{s}=s\land j_{ik}=j^{sa}-1\lor$

$I=\Bbbk\land s>1\land\Bbbk>0\land\boldsymbol{s}=s+\Bbbk\land\Bbbk_z\colon z=2\land\Bbbk=\Bbbk_1+\Bbbk_2\land j_{ik}=j^{sa}-1\lor$

$I=\Bbbk\land s>1\land\Bbbk_2>0\land\Bbbk_1=0\land\boldsymbol{s}=s+\Bbbk\land$

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$$\frac{\left(n_i+j_s+j_{sa}^{ik}-j^{sa}-s-\Bbbk-j_{sa}^{s}+1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_s+j_{sa}^{ik}-j^{sa}-s-j_{sa}^{s}+1\right)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

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$$\frac{\left(n_i + j_{sa}^{ik} - j_{sa} - s - \Bbbk_1 - \Bbbk_2 + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - j_{sa} - s + 1\right)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

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$$\frac{(n_i + j_s - s - \Bbbk_1 - \Bbbk_2 - j_{sa}^{s})!}{(n_i + j_s - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\frac{(2\cdot n_i-n_{ik}-j_s-j^{sa}-s-\mathbb{k}+3)!}{(2\cdot n_i-n_{ik}-j^{sa}-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s}+3)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(n_{ik} + j_{ik} + \Bbbk_1 - j_s - s - \Bbbk)!}{(n_{ik} + j_{ik} + \Bbbk_1 - \boldsymbol{n} - \Bbbk - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(n_{sa}+j_{sa}-s-j_{sa}^{s})!}{(n_{sa}+j^{sa}-\boldsymbol{n}-j_{sa}^{s})! \cdot (\boldsymbol{n}+j_{sa}-s-j^{sa})!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(2\cdot n_i-n_{sa}-j_s-j^{sa}-s-2\cdot\Bbbk+2)!}{(2\cdot n_i-n_{sa}-j^{sa}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s}+2)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\frac{(3\cdot n_i-n_{ik}-n_{sa}-j_s-j_{ik}-j^{sa}-s-2\cdot\Bbbk+3)!}{(3\cdot n_i-n_{ik}-n_{sa}-j_{ik}-j^{sa}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s}+3)! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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$$\frac{(2\cdot n_i + j_s - n_{sa} - j^{sa} - s - 2\cdot \Bbbk)!}{(2\cdot n_i + 2\cdot j_s - n_{sa} - j^{sa} - \boldsymbol{n} - 2\cdot \Bbbk - j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

$$S_D^{\dot{I}SS} = (D-s)!\cdot\frac{n-\imath-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

$$\frac{(3\cdot n_i + 2\cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - s - 2\cdot \Bbbk)!}{(3\cdot n_i + 3\cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - \boldsymbol{n} - 2\cdot \Bbbk - j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\frac{(2\cdot n_{ik} + 2\cdot j_{ik} - n_{sa} - j_s - j^{sa} - s - 2\cdot \Bbbk)!}{(2\cdot n_{ik} + 2\cdot j_{ik} - n_{sa} - j^{sa} - \boldsymbol{n} - 2\cdot \Bbbk - j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\frac{(n_i + n_{ik} + j_{ik} - n_{sa} - j^{sa} - s - 2\cdot \Bbbk)!}{(n_i + n_{ik} + j_s + j_{ik} - n_{sa} - j^{sa} - \boldsymbol{n} - 2\cdot \Bbbk - j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$S_D^{\dot{I}SS} = (D-s)!\cdot\frac{n-\imath-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_{sa}+j_{ik}-j_s-s+1)!}{(n_{sa}+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

$I = \Bbbk \land s > 1 \land \Bbbk > 0 \land \boldsymbol{s} = s + \Bbbk \land \Bbbk_z : z = 1 \land j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{iss} = (D-s)! \cdot \frac{n-\imath-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_{sa}+j_{sa}-s-j_{sa}^{s})!}{(n_{sa}+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}+j_{sa}-s-j_{ik}-1)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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$$\frac{(3\cdot n_i-n_{ik}-n_{sa}-j_s-2\cdot j^{sa}-s-2\cdot \mathbb{k}+4)!}{(3\cdot n_i-n_{ik}-n_{sa}-2\cdot j^{sa}-\boldsymbol{n}-2\cdot \mathbb{k}-j_{sa}^{s}+4)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge \mathbb{k}=0\wedge \boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

$I=\mathbb{k}\wedge s>1\wedge \mathbb{k}>0\wedge \boldsymbol{s}=s+\mathbb{k}\wedge \mathbb{k}_z\colon z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$S_D^{iss}=(D-s)!\cdot\frac{n-\iota-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

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$$\frac{(3\cdot n_i-n_{ik}-n_{sa}-j_s-2\cdot j_{ik}-s-2\cdot \mathbb{k}+2)!}{(3\cdot n_i-n_{ik}-n_{sa}-2\cdot j_{ik}-\boldsymbol{n}-2\cdot \mathbb{k}-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge \mathbb{k}=0\wedge \boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

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$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_{sa}-2\cdot j^{sa}-s-2\cdot \mathbb{k}+1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_{sa}-2\cdot j^{sa}-\boldsymbol{n}-2\cdot \mathbb{k})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge \mathbb{k}=0\wedge \boldsymbol{s}=s\wedge j_{ik}=j^{sa}-1\vee$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$S_D^{iss} = (D - s)! \cdot \frac{n - \imath - s + 1}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - s - 2 \cdot \Bbbk - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

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$$S_D^{iss} = (D - s)! \cdot \frac{n - \imath - s + 1}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_i + n_{ik} - n_{sa} - s - 2 \cdot \Bbbk - 1)!}{(n_i + n_{ik} + j_s - n_{sa} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

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$$S_D^{\dot{I}ss}=(D-s)!\cdot\frac{n-\imath-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}\frac{(n_{sa}+j^{sa}-j_s-s)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=1\wedge\mathbb{k}=\mathbb{k}_2\Rightarrow$

$$S_D^{\dot{I}ss}=(D-s)!\cdot\frac{n-\imath-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}\frac{(n_{sa}+j_{sa}-s-j_{sa}^{s})!}{(n_{sa}+j^{sa}-\boldsymbol{n}-j_{sa}^{s})!\cdot(\boldsymbol{n}+j_{sa}-s-j^{sa})!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=1\wedge\mathbb{k}=\mathbb{k}_2\Rightarrow$

$$S_D^{\dot{I}ss}=(D-s)!\cdot\frac{n-\imath-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}\frac{(2\cdot n_i-n_{sa}-j_s-j^{sa}-s-2\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2+2)!}{(2\cdot n_i-n_{sa}-j^{sa}-\boldsymbol{n}-2\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

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$$S_D^{iss} = (D-s)! \cdot \frac{n-\iota-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_i - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} + 2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$$S_D^{iss} = (D-s)! \cdot \frac{n-\iota-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 3)!}{(3 \cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - \boldsymbol{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^{s} + 3)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

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$$S_D^{iss} = (D-s)! \cdot \frac{n-\iota-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 + 3)!}{(3 \cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^{s} + 3)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

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$$S_D^{\dot{I}ss} = (D-s)! \cdot \frac{n-\imath-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_i + j_s - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

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$$\frac{(2 \cdot n_i + j_s - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - j_{ik} - j^{sa} - \boldsymbol{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$$S_D^{\dot{I}ss}=(D-s)!\cdot\frac{n-\iota-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_{sa}-j_{ik}-j^{sa}-s-2\cdot\mathbb{k}-\mathbb{k}_1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_{sa}-j_{ik}-j^{sa}-\boldsymbol{n}-2\cdot\mathbb{k}-\mathbb{k}_1-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

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$$S_D^{iss} = (D-s)! \cdot \frac{n-\iota-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$\frac{(n_i+n_{ik}+j_{ik}-n_{sa}-j^{sa}-s-2\cdot\Bbbk_2-\Bbbk_1)!}{(n_i+n_{ik}+j_s+j_{ik}-n_{sa}-j^{sa}-\boldsymbol{n}-2\cdot\Bbbk_2-\Bbbk_1-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n \wedge \Bbbk=0 \wedge \boldsymbol{s}=s \vee$

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$$\frac{(n_i+n_{ik}+j_{ik}+\Bbbk_1-n_{sa}-j^{sa}-s-2\cdot\Bbbk)!}{(n_i+n_{ik}+j_s+j_{ik}+\Bbbk_1-n_{sa}-j^{sa}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

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$\Bbbk_z: z=1 \wedge \Bbbk=\Bbbk_2 \wedge j_{ik}=j^{sa}-1 \Rightarrow$

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$$\frac{(n_{sa}+j_{ik}-j_s-s+1)!}{(n_{sa}+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-s)!}$$

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$$S_D^{iss} = (D-s)! \cdot \frac{n - \imath - s + 1}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j_{ik} - \boldsymbol{n} - j_{sa}^s + 1)! \cdot (\boldsymbol{n} + j_{sa} - s - j_{ik} - 1)!}$$

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$$\frac{(2\cdot n_i-n_{sa}-j_s-j_{ik}-s-2\cdot\mathbb{k}+1)!}{(2\cdot n_i-n_{sa}-j_{ik}-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(3\cdot n_i-n_{ik}-n_{sa}-j_s-2\cdot j^{sa}-s-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2+4)!}{(3\cdot n_i-n_{ik}-n_{sa}-2\cdot j^{sa}-\boldsymbol{n}-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2-j_{sa}^{s}+4)!\cdot(\boldsymbol{n}-s)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \boldsymbol{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_{sa}-2\cdot j_{ik}-s-3\cdot\Bbbk_1-2\cdot\Bbbk_2-1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_{sa}-2\cdot j_{ik}-\boldsymbol{n}-3\cdot\Bbbk_1-2\cdot\Bbbk_2-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j^{sa} - 1 \lor$

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$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_{sa}-2\cdot j_{ik}-s-2\cdot\Bbbk-\Bbbk_1-1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_{sa}-2\cdot j_{ik}-\boldsymbol{n}-2\cdot\Bbbk-\Bbbk_1-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

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$\Bbbk_z\colon z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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$$\frac{(2\cdot n_{ik}+j_{ik}-n_{sa}-j_s-s-2\cdot\Bbbk_2-1)!}{(2\cdot n_{ik}+j_{ik}-n_{sa}-\boldsymbol{n}-2\cdot\Bbbk_2-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(2\cdot n_{ik}+j_{ik}+2\cdot\Bbbk_1-n_{sa}-j_s-s-2\cdot\Bbbk-1)!}{(2\cdot n_{ik}+j_{ik}+2\cdot\Bbbk_1-n_{sa}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(n_i+n_{ik}-n_{sa}-s-2\cdot\Bbbk_2-\Bbbk_1-1)!}{(n_i+n_{ik}+j_s-n_{sa}-\boldsymbol{n}-2\cdot\Bbbk_2-\Bbbk_1-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(n_i+n_{ik}+\mathbb{k}_1-n_{sa}-s-2\cdot\mathbb{k}-1)!}{(n_i+n_{ik}+j_s+\mathbb{k}_1-n_{sa}-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

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$$S_D^{iss} = (D-s)! \cdot \frac{n-\iota-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\left(\frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}-s)!}\right)_{j_i}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \Rightarrow$

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$$\frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}-s)!}$$

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$$S_D^{İSS} = (D-s)! \cdot \frac{n-\iota-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{(n_i+j_s-j_i-\Bbbk-j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}+j_s-j_i-j_{sa}^{s})!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \Rightarrow$

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$$\frac{\left(n_i+2\cdot j_i+j_{sa}^{s}+j_{sa}^{ik}-j_s-j_{ik}-3\cdot s-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+2\cdot j_i+j_{sa}^{s}+j_{sa}^{ik}-j_s-j_{ik}-3\cdot s\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

$$S_D^{iSS}=(D-s)!\cdot\frac{n-\iota-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_i+j_s+j_{sa}^{ik}-j_{ik}-s-\Bbbk-j_{sa}^{s}\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_s+j_{sa}^{ik}-j_{ik}-s-j_{sa}^{s}\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

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$$\frac{\left(n_i+2\cdot j_{ik}+j_{sa}^{s}-j_s-j_i-2\cdot j_{sa}^{ik}-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+2\cdot j_{ik}+j_{sa}^{s}-j_s-j_i-2\cdot j_{sa}^{ik}\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z:z=1\Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_i+j_{ik}-j_i-\Bbbk-j_{sa}^{ik}\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}-j_i-j_{sa}^{ik}\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

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$$\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j_i - 1 \lor$

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$D = \boldsymbol{n} < n \land \Bbbk = 0 \land \boldsymbol{s} = s \land j_{ik} = j_i - 1 \lor$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{\dot{I}ss} = (D-s)! \cdot \frac{n-\imath-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{\left(n_i+j_i+j_{sa}^{s}+j_{sa}^{ik}-j_s-3\cdot s-\Bbbk+1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_i+j_{sa}^{s}+j_{sa}^{ik}-j_s-3\cdot s+1\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$S_D^{\text{i}ss} = (D - s)! \cdot \frac{n - \imath - s + 1}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot j_{sa}^{ik} - \Bbbk - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot j_{sa}^{ik} - 1\right)!}$$

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$$\frac{\left(n_i - \Bbbk - j_{sa}^{ik} - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} - j_{sa}^{ik} - 1\right)!}$$

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$$S_D^{\text{İ}ss} = (D-s)! \cdot \frac{n-\imath-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \left(\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\right)_{j_i}$$

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$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

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$$\frac{(n_i + j_s - j_i - \mathbb{k} - j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} + j_s - j_i - j_{sa}^{s})!}$$

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$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

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$$\frac{(n_i+j_i+j_{sa}^s-j_s-2\cdot s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot(\boldsymbol{n}+j_i+j_{sa}^s-j_s-2\cdot s)!}$$

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$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk\right)!}{\left(n_i - \boldsymbol{n} - \Bbbk\right)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s\right)!}$$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$$S_D^{iss} = (D - s)! \cdot \frac{n - \imath - s + 1}{n - s - I + 1} \cdot \sum_{j_s = 1} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j_i = s)}$$

$$\sum_{(n_i = \boldsymbol{n} + \Bbbk)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} - \Bbbk_1 + 1)}^{(\ )} \sum_{n_s = n_{ik} + j_{ik} - j_i - \Bbbk_2}$$

$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \Bbbk_1 - \Bbbk_2\right)!}{\left(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2\right)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

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$$\frac{\left(n_i + 2 \cdot j_{ik} + j_{sa}^{s} - j_s - j_i - 2 \cdot j_{sa}^{ik} - \Bbbk\right)!}{\left(n_i - \boldsymbol{n} - \Bbbk\right)! \cdot \left(\boldsymbol{n} + 2 \cdot j_{ik} + j_{sa}^{s} - j_s - j_i - 2 \cdot j_{sa}^{ik}\right)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{\left(n_i+2\cdot j_{ik}+j_{sa}^{s}-j_s-j_i-2\cdot j_{sa}^{ik}-\Bbbk_1-\Bbbk_2\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+2\cdot j_{ik}+j_{sa}^{s}-j_s-j_i-2\cdot j_{sa}^{ik}\right)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

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$$\frac{\left(n_i+j_i+j_{sa}^{ik}-j_{ik}-2\cdot s-\Bbbk\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_i+j_{sa}^{ik}-j_{ik}-2\cdot s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

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$$\frac{\left(n_i+j_i+j_{sa}^{ik}-j_{ik}-2\cdot s-\Bbbk_1-\Bbbk_2\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+j_i+j_{sa}^{ik}-j_{ik}-2\cdot s\right)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\left(\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\right)_{j_i}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\left(\frac{(n_i - s - \Bbbk_1 - \Bbbk_2)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}\right)_{j_i}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(n_i - s - \Bbbk_1 - \Bbbk_2)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(n_i + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot s - \Bbbk + 1)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot s + 1)!}$$

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$$\frac{\left(n_i + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s + 1\right)!}$$

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$$\frac{\left(n_i+j_i+j_{sa}^{s}+j_{sa}^{ik}-j_s-3\cdot s-\Bbbk_1-\Bbbk_2+1\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2)!\cdot\left(\boldsymbol{n}+j_i+j_{sa}^{s}+j_{sa}^{ik}-j_s-3\cdot s+1\right)!}$$

$D=\boldsymbol{n}<n \wedge \Bbbk=0 \wedge \boldsymbol{s}=s \wedge j_{ik}=j_i-1 \vee$

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$\Bbbk_z: z=1 \wedge \Bbbk=\Bbbk_2 \wedge j_{ik}=j_i-1 \Rightarrow$

$$S_D^{İss} = (D-s)! \cdot \frac{n-\iota-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{\left(n_i+j_s+j_{sa}^{ik}-j_i-s-\Bbbk-j_{sa}^{s}+1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_s+j_{sa}^{ik}-j_i-s-j_{sa}^{s}+1\right)!}$$

$D=\boldsymbol{n}<n \wedge \Bbbk=0 \wedge \boldsymbol{s}=s \wedge j_{ik}=j_i-1 \vee$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{\left(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1\right)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{\left(n_i+j_{ik}+j_{sa}^{s}-j_s-2\cdot j_{sa}^{ik}-\Bbbk-1\right)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}^{s}-j_s-2\cdot j_{sa}^{ik}-1\right)!}$$

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$$\sum_{(n_i = \boldsymbol{n} + \Bbbk)}^{(n)} \sum_{(n_{ik} = n_i - j_{ik} - \Bbbk_1 + 1)}^{(\ )} \sum_{n_s = n_{ik} + j_{ik} - j_i - \Bbbk_2}$$

$$\frac{\left(n_i - \Bbbk_1 - \Bbbk_2 - j_{sa}^{ik} - 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} - j_{sa}^{ik} - 1\right)!}$$

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$$\frac{\left(n_i + j_{sa}^{ik} - 2 \cdot s - \Bbbk + 1\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - 2 \cdot s + 1\right)!}$$

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$$\frac{\left(n_i + j_{sa}^{ik} - 2 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - 2 \cdot s + 1\right)!}$$

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$$\frac{(n_{ik}+j_i-j_s-s-\Bbbk-1)!}{(n_{ik}+j_i-\boldsymbol{n}-\Bbbk-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{\left(n_{ik}+j_{sa}^{ik}-s-\Bbbk-j_{sa}^{s}\right)!}{(n_{ik}+j_i-\boldsymbol{n}-\Bbbk-j_{sa}^{s}-1)!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j_i+1\right)!}$$

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$$\frac{(2\cdot n_i - n_{ik} - j_s - j_i - s - \mathbb{k} + 3)!}{(2\cdot n_i - n_{ik} - j_i - \boldsymbol{n} - \mathbb{k} - j_{sa}^{s} + 3)!\cdot(\boldsymbol{n} - s)!}$$

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$$\frac{(2\cdot n_i + j_s - n_{ik} - j_i - s - \mathbb{k} + 1)!}{(2\cdot n_i + 2\cdot j_s - n_{ik} - j_i - \boldsymbol{n} - \mathbb{k} - j_{sa}^{s} + 1)!\cdot(\boldsymbol{n} - s)!}$$

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$$\frac{(n_{ik} + j_{ik} + \mathbb{k}_1 - j_s - s - \mathbb{k})!}{(n_{ik} + j_{ik} + \mathbb{k}_1 - \boldsymbol{n} - \mathbb{k} - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2\cdot n_i-n_{ik}-j_s-j_{ik}-s-2\cdot\mathbb{k}_1-\mathbb{k}_2+2)!}{(2\cdot n_i-n_{ik}-j_{ik}-\boldsymbol{n}-2\cdot\mathbb{k}_1-\mathbb{k}_2-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

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$$S_D^{iss}=(D-s)!\cdot\frac{n-\imath-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

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$$\frac{(2\cdot n_i+j_s-n_s-j_i-s-2\cdot\mathbb{k})!}{(2\cdot n_i+2\cdot j_s-n_s-j_i-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(2\cdot n_{ik}+2\cdot j_{ik}-n_s-j_s-j_i-s-2\cdot\mathbb{k})!}{(2\cdot n_{ik}+2\cdot j_{ik}-n_s-j_i-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\vee I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z\colon z=1\Rightarrow$

$$S_D^{İSS}=(D-s)!\cdot\frac{n-\iota-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i+n_{ik}+j_{ik}-n_s-j_i-s-2\cdot\mathbb{k})!}{(n_i+n_{ik}+j_s+j_{ik}-n_s-j_i-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{k}\wedge s>1\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{k}\wedge\mathbb{k}_z\colon z=1\wedge j_{ik}=j_i-1\Rightarrow$

$$S_D^{İSS}=(D-s)!\cdot\frac{n-\iota-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{(n_s+j_{ik}-j_s-s+1)!}{(n_s+j_{ik}-\boldsymbol{n}-j_{sa}^s+1)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{iss} = (D-s)!\cdot\frac{n-\iota-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk} \frac{(n_s-j_{sa}^s)!}{(n_s+j_{ik}-\boldsymbol{n}-j_{sa}^s+1)!\cdot(\boldsymbol{n}-j_{ik}-1)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-2\cdot j_i-s-2\cdot\Bbbk+4)!}{(3\cdot n_i-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s}+4)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

$I=\Bbbk\wedge s>1\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\Bbbk\wedge\Bbbk_z\colon z=1\wedge j_{ik}=j_i-1\Rightarrow$

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$$\frac{(2\cdot n_i+j_s-n_s-j_{ik}-s-2\cdot\Bbbk-1)!}{(2\cdot n_i+2\cdot j_s-n_s-j_{ik}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-2\cdot j_i-s-2\cdot\Bbbk+1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-2\cdot\Bbbk)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{\text{iss}} = (D - s)! \cdot \frac{n - \imath - s + 1}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot \Bbbk - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot \Bbbk - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_s - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(n_i + n_{ik} - n_s - s - 2 \cdot \Bbbk - 1)!}{(n_i + n_{ik} + j_s - n_s - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \vee$

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$$S_D^{İss} = (D-s)! \cdot \frac{n-\iota-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\boldsymbol{n}-j_{sa}^{s})! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

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$$S_D^{\dot{I}SS}=(D-s)!\cdot\frac{n-\iota-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2\cdot n_i-n_s-j_s-j_i-s-2\cdot\Bbbk+2)!}{(2\cdot n_i-n_s-j_i-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^s+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge\boldsymbol{s}=s\vee$

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$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-j_{ik}-j_i-s-3\cdot\Bbbk_1-2\cdot\Bbbk_2+3)!}{(3\cdot n_i-n_{ik}-n_s-j_{ik}-j_i-\boldsymbol{n}-3\cdot\Bbbk_1-2\cdot\Bbbk_2-j_{sa}^s+3)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-j_{ik}-j_i-s-2\cdot\Bbbk-\Bbbk_1+3)!}{(3\cdot n_i-n_{ik}-n_s-j_{ik}-j_i-\boldsymbol{n}-2\cdot\Bbbk-\Bbbk_1-j_{sa}^s+3)!\cdot(\boldsymbol{n}-s)!}$$

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$$S_D^{\dot{I}ss} = (D-s)! \cdot \frac{n-\iota-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2} \frac{(2\cdot n_i+j_s-n_s-j_i-s-2\cdot\Bbbk_1-2\cdot\Bbbk_2)!}{(2\cdot n_i+2\cdot j_s-n_s-j_i-\boldsymbol{n}-2\cdot\Bbbk_1-2\cdot\Bbbk_2-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

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$$S_D^{\dot{I}ss} = (D-s)! \cdot \frac{n-\imath-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - s - 2 \cdot \mathbb{k} - \mathbb{k}_1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - j_{ik} - j_i - \boldsymbol{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_s - j_i - s - 2 \cdot \mathbb{k}_2)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_s - j_i - \boldsymbol{n} - 2 \cdot \mathbb{k}_2 - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

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$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$$S_D^{\dot{I}ss} = (D-s)! \cdot \frac{n-\imath-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - j_s - j_i - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - j_i - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

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$$S_D^{\dot{I}SS} = (D-s)! \cdot \frac{n-\imath-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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$$\frac{(n_i+n_{ik}+j_{ik}-n_s-j_i-s-2\cdot\mathbb{k}_2-\mathbb{k}_1)!}{(n_i+n_{ik}+j_s+j_{ik}-n_s-j_i-\boldsymbol{n}-2\cdot\mathbb{k}_2-\mathbb{k}_1-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \vee$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_s+j_{ik}-j_s-s+1)!}{(n_s+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-s)!}$$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{(2\cdot n_i-n_s-j_s-j_{ik}-s-2\cdot\mathbb{k}+1)!}{(2\cdot n_i-n_s-j_{ik}-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge\boldsymbol{s}=s\wedge j_{ik}=j_i-1\vee$

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$$S_D^{iSS}=(D-s)!\cdot\frac{n-\imath-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-2\cdot j_i-s-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2+4)!}{(3\cdot n_i-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2-j_{sa}^{s}+4)!\cdot(\boldsymbol{n}-s)!}$$

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$$S_D^{\text{İ}ss} = (D-s)! \cdot \frac{n-\iota-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(3 \cdot n_i - n_{ik} - n_s - j_s - 2 \cdot j_i - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 + 4)!}{(3 \cdot n_i - n_{ik} - n_s - 2 \cdot j_i - \boldsymbol{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^{s} + 4)! \cdot (\boldsymbol{n} - s)!}$$

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$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z: z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \Bbbk - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - s - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_i - \boldsymbol{n} - 3 \cdot \Bbbk_1 - 2 \cdot \Bbbk_2)! \cdot (\boldsymbol{n} - s)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3\cdot n_i + 2\cdot j_s - n_{ik} - n_s - 2\cdot j_{ik} - s - 3\cdot \mathbb{k}_1 - 2\cdot \mathbb{k}_2 - 1)!}{(3\cdot n_i + 3\cdot j_s - n_{ik} - n_s - 2\cdot j_{ik} - \boldsymbol{n} - 3\cdot \mathbb{k}_1 - 2\cdot \mathbb{k}_2 - j_{sa}^{s} - 1)!\cdot(\boldsymbol{n}-s)!}$$

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$$S_D^{iss} = (D-s)!\cdot\frac{n-\imath-s+1}{n-s-I+1}\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3\cdot n_i + 2\cdot j_s - n_{ik} - n_s - 2\cdot j_i - s - 2\cdot \mathbb{k} - \mathbb{k}_1 + 1)!}{(3\cdot n_i + 3\cdot j_s - n_{ik} - n_s - 2\cdot j_i - \boldsymbol{n} - 2\cdot \mathbb{k} - \mathbb{k}_1)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(3\cdot n_i + 2\cdot j_s - n_{ik} - n_s - 2\cdot j_{ik} - s - 2\cdot \mathbb{k} - \mathbb{k}_1 - 1)!}{(3\cdot n_i + 3\cdot j_s - n_{ik} - n_s - 2\cdot j_{ik} - \boldsymbol{n} - 2\cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^{s} - 1)!\cdot(\boldsymbol{n}-s)!}$$

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$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{İss} = (D-s)! \cdot \frac{n-\imath-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot \Bbbk_2 - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_s - \boldsymbol{n} - 2 \cdot \Bbbk_2 - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{İss} = (D-s)! \cdot \frac{n-\imath-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \Bbbk_1 - n_s - j_s - s - 2 \cdot \Bbbk - 1)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \Bbbk_1 - n_s - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk > 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge \Bbbk_z : z = 2 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \Bbbk \wedge s > 1 \wedge \Bbbk_2 > 0 \wedge \Bbbk_1 = 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{İss} = (D-s)! \cdot \frac{n-\imath-s+1}{n-s-I+1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(n_i + n_{ik} - n_s - s - 2 \cdot \Bbbk_2 - \Bbbk_1 - 1)!}{(n_i + n_{ik} + j_s - n_s - \boldsymbol{n} - 2 \cdot \Bbbk_2 - \Bbbk_1 - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{k} \wedge s > 1 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$S_D^{iss} = (D-s)! \cdot \frac{n - \imath - s + 1}{n - s - I + 1} \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n)} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} + \mathbb{k}_1 - n_s - s - 2 \cdot \mathbb{k} - 1)!}{(n_i + n_{ik} + j_s + \mathbb{k}_1 - n_s - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge \mathbb{k}_z: z > 1 \Rightarrow$

$$S_D^{iss} = \prod_{z=3}^{s} \sum_{((j_i)_1=2)}^{(\ )} \sum_{(j_{ik})_{z-1}=z-1} \sum_{((j_i)_{z-1}=z \vee z=s \Rightarrow s)}^{(\ )}$$

$$\sum_{n_i=n} \sum_{\left((n_{ik})_1=n-(j_i)_1-\sum_{i=1}\mathbb{k}_i+1\right)}^{(\ )}$$

$$\sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}\mathbb{k}_i}$$

$$\sum_{\left((n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}\mathbb{k}_i\right)}^{(\ )}$$

$$\frac{(D-s)!}{(D-s-(j_i)_1+2)!} \cdot \frac{\left(D-s-\left(j_{ik}-j_{sa}^{ik}\right)_{z-1}\right)!}{\left(D-s-(j_i)_{z-1}+(j_{ik})_{z-1}-\left(j_{ik}-j_{sa}^{ik}\right)_{z-1}+1\right)!} \cdot$$

$$\frac{(D-(j_i)_{z=s})!}{(D-\boldsymbol{n})!} \cdot$$

$$\frac{(n-(n_{ik})_1-1)!}{((j_i)_1-2)! \cdot (n-(n_{ik})_1-(j_i)_1+1)!} \cdot$$

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$$\frac{((n_{ik})_{z-1}-(n_s)_{z-1}-1)!}{((j_i)_{z-1}-(j_{ik})_{z-1}-1)!\cdot((n_{ik})_{z-1}+(j_{ik})_{z-1}-(n_s)_{z-1}-(j_i)_{z-1})!}\cdot$$

$$\frac{((n_s)_{z=s}-1)!}{((n_s)_{z=s}+(j_i)_{z=s}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-(j_i)_{z=s})!}$$

***Örnek D43;*** *Yukarıda verilen örnekte 600 kopyalanma hatası oluşacak DNA'nın timin ile başlayıp sonraki ilk farklı dizilimli azotlu bazının adenin olduğu dağılımlardaki kopyalanma hatasının oluştuğu kopyalanma çatalına helikalas proteininden sonra DNA polimeraz enziminin bu hatayı düzeltebildiğini fakat adenin ile başlayan kopyalanma çatallarında oluşan hataları düzeltemeden kaldığını düşünelim. Bu durumda DNA'da polimeraz enziminin düzeltebileceği ve düzeltemeyeceği kopyalanma hata sayısı nedir?*

$DNA = 100\ gen, her\ gen\ için\ D = 3, n = 8, \iota = 5\ ve\ s = 3 \Rightarrow$

$S_0^{İSS} = ?,\quad S_D^{İSS} = ?,\quad S_0^{İSS}\cdot 100 = ?\ ve\quad S_D^{İSS}\cdot 100 = ?$

*1. seviyeden soru ve 1. seviye problem*

$$S_0^{İSS} = \frac{(n-s)!}{(\iota-1)!\cdot(n-\iota-s+1)}$$

$$S_0^{İSS} = \frac{(8-3)!}{(5-1)!\cdot(8-5-3+1)}$$

$$S_0^{İSS} = 5$$

$$S_0^{İSS}\cdot 100 = 5\cdot 100 = 500$$

*altı yüz kopyalanma hatasından, helikalas proteininden sonra DNA polimeraz enzimi deş yüz hatayı düzeltir.*

$$S_D^{İSS} = \frac{(n-s)!}{\iota!}$$

$$S_D^{İSS} = \frac{(8-3)!}{5!}$$

$$S_D^{İSS} = 1$$

$$S_D^{İSS}\cdot 100 = 1\cdot 100 = 100$$

*altı yüz kopyalanma hatasından, helikalas proteininden sonra DNA polimeraz enzimi yüz hatayı düzeltemez.*

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# BAĞIMSIZ-BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİ

Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde $\{0,0,0,1,2,3,4,5\}$ veya $\{0,0,0,1,2,\mathbf{0},\mathbf{0},\mathbf{0},3,4,\mathbf{0},\mathbf{0},5\}$, simetrinin ilk bağımlı durumuyla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu, simetrinin ilk bağımlı durumu bulunan dağılımlardaki düzgün simetrik olasılıklar; bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu ilk düzgün simetrik olasılık eşitlikleriyle hesaplanabilir. Bağımsız durumla başlayan simetrik durumlar, simetrinin ilk durumuyla başlayan dağılımlarda bulunamayacağından, ilk düzgün simetrik olasılıkların tamamı bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin ilk bağımlı durumu olan dağılımlarda bulunurlar. Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde ve simetrinin bağımlı durumları arasında bağımsız durum bulunmadığında $\{0,0,0,1,2,3,4,5\}$, simetrinin ilk bağımlı durumuyla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin ilk bağımlı durumu olan dağılımlardaki, düzgün simetrik olasılıklar için,

$${}_0S^{\text{İSS}} = {}_0S_0^{\text{İSS}} = \frac{(n-\boldsymbol{s}+1)!}{(D+I-\boldsymbol{s}+1)!\cdot(\iota-I)!}\cdot S_{D=\boldsymbol{n},s-I}^{\text{İSS}}$$

$$I = \mathbb{1}$$

$$\boldsymbol{s} = s + I = s + \mathbb{1}$$

Burada ${}_0S^{\text{İSS}} = \frac{(n-\boldsymbol{s}+1)!}{(D-\boldsymbol{s}+I+1)!\cdot(\iota-I)!}\cdot S_{D=\boldsymbol{n},s-I}^{\text{İSS}}$ eşitliğinin sağındaki bağımlı durum sayısının bağımlı olay sayısına eşit olduğunda elde edilen ilk düzgün simetrik olasılık eşitliğinde $S_{D=\boldsymbol{n}}^{\text{İSS}} = (D-s)! \Rightarrow S_{D=\boldsymbol{n},s-I}^{\text{İSS}} = \big(D-(\boldsymbol{s}-I)\big)! = (D+I-\boldsymbol{s})!$ yazıldığında,

$${}_0S^{\text{İSS}} = \frac{(n-\boldsymbol{s}+1)!}{(D+I-\boldsymbol{s}+1)!\cdot(\iota-I)!}\cdot(D+I-\boldsymbol{s})!$$

$${}_0S^{\text{İSS}} = \frac{(n-\boldsymbol{s}+1)!}{(\iota-I)!\cdot(D+I-\boldsymbol{s}+1)}$$

veya bu eşitlikte D yerine $D = n - \iota$ yazıldığında,

$${}_0S^{\text{İSS}} = \frac{(n-\boldsymbol{s}+1)!}{(\iota-I)!\cdot(n+I-\iota-\boldsymbol{s}+1)}$$

veya $\boldsymbol{s} = s + I$ olacağından,

$${}_0S^{\text{İSS}} = \frac{(n-s-I+1)!}{(D-s+1)!\cdot(\iota-I)!}\cdot S_{D=\boldsymbol{n}}^{\text{İSS}}$$

ve burada $S_{D=\boldsymbol{n}}^{\text{İSS}} = (D-s)!$

$${}_0S^{\text{İSS}} = \frac{(n-s-I+1)!}{(D-s+1)!\cdot(\iota-I)!}\cdot(D-s)!$$

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$${}_{0}S^{\dot{I}ss} = \frac{(n-s-I+1)!}{(\iota-I)!\cdot(D-s+1)}$$

veya bu eşitlikte D yerine $D = n - \iota$ yazıldığında,

$${}_{0}S^{\dot{I}ss} = \frac{(n-s-I+1)!}{(\iota-I)!\cdot(n-s-\iota+1)}$$

veya $S_{i,j_s,j_i}$ eşitliğinin ilk düzgün simetrik olasılık terimiyle, $S_{BBj_i}$ teriminin çarpımından,

$${}_{0}S^{\dot{I}ss} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=D)}^{n-\mathbb{1}}\sum_{n_s=n_i-j_i+1}$$

$$\frac{(n_i-n_s-1)!}{(j_i-2)!\cdot(n_i-n_s-j_i+1)!}\cdot\frac{(n_s-1)!}{(n_s+j_i-D-1)!\cdot(D-j_i)!}$$

$${}_{0}S^{\dot{I}ss} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=D)}^{n-\mathbb{1}}\sum_{n_s=n_i-j_i+1}$$

$$\frac{(n_i-n_i+j_i-1-1)!}{(j_i-2)!\cdot(n_i-n_i+j_i-1-j_i+1)!}\cdot\frac{(n_i-j_i+1-1)!}{(n_i-j_i+1+j_i-D-1)!\cdot(D-j_i)!}$$

$${}_{0}S^{\dot{I}ss} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=D)}^{n-\mathbb{1}}\sum_{n_s=n_i-j_i+1}$$

$$\frac{(j_i-2)!}{(j_i-2)!}\cdot\frac{(n_i-j_i)!}{(n_i-D)!\cdot(D-j_i)!}$$

$${}_{0}S^{\dot{I}ss} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=D)}^{n-\mathbb{1}}\sum_{n_s=n_i-j_i+1}$$

$$\frac{(n_i-j_i)!}{(n_i-D)!\cdot(D-j_i)!}$$

$${}_{0}S^{\dot{I}ss} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=D)}^{n-\mathbb{1}}\sum_{n_s=n_i-j_i+1}$$

$$\frac{(n_i-s)!}{(n_i-D)!\cdot(D-s)!}$$

veya $D = \boldsymbol{n}$ olacağından eşitliğin sağında ilgili yerde yapılacak düzenlemeyle,

$${}_{0}S^{\dot{I}ss} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=\boldsymbol{n})}^{n-\mathbb{1}}\sum_{n_s=n_i-j_i+1}$$

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$$\frac{(n_i - s)!}{(n_i - \boldsymbol{n})! \cdot (\boldsymbol{n} - s)!}$$

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,

$${}_0S^{\text{İ}ss} = {}_0S_0^{\text{İ}ss} = \frac{(n - \boldsymbol{s} + 1)!}{(D + I - \boldsymbol{s} + 1)! \cdot (\imath - I)!} \cdot S^{\text{İ}ss}_{D=\boldsymbol{n}, s-I}$$

$$I = \mathbb{l} + \mathbb{k}$$

$$\boldsymbol{s} = I + s = \mathbb{l} + \mathbb{k} + s$$

$${}_0S^{\text{İ}ss} = \frac{(n - \boldsymbol{s} + 1)!}{(D + I - \boldsymbol{s} + 1)! \cdot (\imath - I)!} \cdot (D + I - \boldsymbol{s})!$$

$${}_0S^{\text{İ}ss} = \frac{(n - \boldsymbol{s} + 1)!}{(\imath - I)! \cdot (D + I - \boldsymbol{s} + 1)}$$

veya bu eşitlikte D yerine $D = n - \imath$ yazıldığında,

$${}_0S^{\text{İ}ss} = \frac{(n - \boldsymbol{s} + 1)! \cdot \big((n - \imath) + I - \boldsymbol{s}\big)!}{(\imath - I)! \cdot \big((n - \imath) + I - \boldsymbol{s} + 1\big)!}$$

$${}_0S^{\text{İ}ss} = \frac{(n - \boldsymbol{s} + 1)!}{(\imath - I)! \cdot (n + I - \imath - \boldsymbol{s} + 1)}$$

veya $\boldsymbol{s} = s + I$ olacağından,

$${}_0S^{\text{İ}ss} = \frac{(n - s - I + 1)!}{(D - s + 1)! \cdot (\imath - I)!} \cdot S^{\text{İ}ss}_{D=\boldsymbol{n}}$$

ve burada $S^{\text{İ}ss}_{D=\boldsymbol{n}} = (D - s)!$

$${}_0S^{\text{İ}ss} = \frac{(n - s - I + 1)!}{(D - s + 1)! \cdot (\imath - I)!} \cdot (D - s)!$$

$${}_0S^{\text{İ}ss} = \frac{(n - s - I + 1)!}{(\imath - I)! \cdot (D - s + 1)}$$

veya bu eşitlikte D yerine $D = n - \imath$ yazıldığında,

$${}_0S^{\text{İ}ss} = \frac{(n - s - I + 1)!}{(\imath - I)! \cdot (n - \imath - s + 1)}$$

$${}_0S^{\text{İ}ss} = \frac{(n - s - I + 1)!}{(\imath - I)! \cdot (n - s - \imath + 1)}$$

veya simetri bağımsız durumla başlayıp, bağımlı durumlar arasında bağımsız durumlar bulunup, bağımlı durumla bittiğinde $\{0, 0, 0, 1, 2, \mathbf{0}, \mathbf{0}, \mathbf{0}, 3, 4, \mathbf{0}, \mathbf{0}, 5\}$,

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$$ {}_0S^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{n-\mathbb{l}} \sum_{n_s=n_i-j_i-\Bbbk+1} \frac{(n_s-1)!}{(n_s+j_i-D-1)! \cdot (D-j_i)!} $$

$$ {}_0S^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{n-\mathbb{l}} \sum_{n_s=n_i-j_i-\Bbbk+1} \frac{(n_i-s-\Bbbk+1-1)!}{(n_i-s-\Bbbk+1+s-D-1)! \cdot (D-s)!} $$

$$ {}_0S^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{n-\mathbb{l}} \sum_{n_s=n_i-j_i-\Bbbk+1} \frac{(n_i-s-\Bbbk)!}{(n_i-D-\Bbbk)! \cdot (D-s)!} $$

veya simetri bağımsız durumla başlayıp bağımlı durumlar arasında bağımsız durumlar bulunup bağımlı durumla bittiğinde $\{0,0,0,1,2,\boldsymbol{0},\boldsymbol{0},\boldsymbol{0},3,4,\boldsymbol{0},\boldsymbol{0},5\}$, aynı şartlı ilk simetrik olasılık eşitliğinde düzenleme yapıldığında;

$$ {}_0S^{\dot{I}ss} = \prod_{z=3}^{s} \sum_{((j_i)_1=2)}^{(\ )} \sum_{(j_{ik})_{z-1}=z-1} \sum_{((j_i)_{z-1}=z \lor z=s \Rightarrow s)}^{(\ )} $$

$$ \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n-\mathbb{l}} \sum_{\left((n_{ik})_1=n_i-(j_i)_1-\sum_{i=1}\Bbbk_i+1\right)}^{(\ )} $$

$$ \sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}\Bbbk_i} $$

$$ \sum_{\left((n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}\Bbbk_i\right)}^{(\ )} $$

$$ \frac{(D-s)!}{(D-s-(j_i)_1+2)!} \cdot \frac{\left(D-s-\left(j_{ik}-j_{sa}^{ik}\right)_{z-1}\right)!}{\left(D-s-(j_i)_{z-1}+(j_{ik})_{z-1}-\left(j_{ik}-j_{sa}^{ik}\right)_{z-1}+1\right)!} \cdot \frac{(D-(j_i)_{z=s})!}{(D-\boldsymbol{n})!} \cdot $$

$$ \frac{(n_i-(n_{ik})_1-1)!}{((j_i)_1-2)! \cdot (n_i-(n_{ik})_1-(j_i)_1+1)!} \cdot $$

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$$\frac{((n_{ik})_{z-1} - (n_s)_{z-1} - 1)!}{((j_i)_{z-1} - (j_{ik})_{z-1} - 1)! \cdot ((n_{ik})_{z-1} + (j_{ik})_{z-1} - (n_s)_{z-1} - (j_i)_{z-1})!} \cdot$$

$$\frac{((n_s)_{z=s} - 1)!}{((n_s)_{z=s} + (j_i)_{z=s} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - (j_i)_{z=s})!}$$

eşitlikleriyle hesaplanabilir. Bu eşitliklere bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı 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 farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik olasılık*** denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik olasılık ${}_0S^{İSS}$ ile gösterilecektir.

Simetri bağımsız durumla başlayıp bağımlı durumla bittiğinde; bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardan, simetrinin ilk bağımlı durumuyla başlayan ve bağımsız durumla başlayıp ilk bağımlı durumu simetrinin ilk bağımlı durumu bulunan dağılımlardaki düzgün simetrik olasılıklar ile aynı şartlı simetrinin simetrik olasılığıyla ilişkisi kurulabilir. Simetri bağımlı durumla başlayıp bağımlı durumla bittiğinde elde edilen ilişki burada da geçerlidir. Bu nedenle düzgün simetrik olasılığın simetrik olasılığıyla ilişkisi için,

$${}_0S^{İSS} = {}_0S \cdot \frac{s! \cdot (s + \imath)!}{n! \cdot (s + \imath - I)!} \cdot \frac{(n - s - I + 1)!}{(D - s + 1)}$$

eşitliği elde edilir.

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s + \mathbb{l} \Rightarrow$

$${}_0S^{İSS} = \frac{(n - \boldsymbol{s} + 1)!}{(\imath - I)! \cdot (D + I - \boldsymbol{s} + 1)}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s + \mathbb{l} \Rightarrow$

$${}_0S^{İSS} = \frac{(n - \boldsymbol{s} + 1)!}{(\imath - I)! \cdot (n + I - \imath - \boldsymbol{s} + 1)}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s + \mathbb{l} \Rightarrow$

$${}_0S^{İSS} = \frac{(n - s - I + 1)!}{(\imath - I)! \cdot (D - s + 1)}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} \wedge \mathbb{k} = 0 \wedge \boldsymbol{s} = s + \mathbb{l} \Rightarrow$

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$$ {}_0S^{\dot{I}ss} = \frac{(n-s-I+1)!}{(\iota-I)!\cdot(n-s-\iota+1)} $$

$D = \boldsymbol{n} < n \land I = \mathbb{l} \land \mathbb{k} = 0 \land \boldsymbol{s} = s + \mathbb{l} \Rightarrow$

$$ {}_0S^{\dot{I}ss} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=D)}^{n-\mathbb{l}}\sum_{n_s=n_i-j_i+1} \frac{(n_i-s)!}{(n_i-D)!\cdot(D-s)!} $$

$D = \boldsymbol{n} < n \land I = \mathbb{l} \land \mathbb{k} = 0 \land \boldsymbol{s} = s + \mathbb{l} \Rightarrow$

$$ {}_0S^{\dot{I}ss} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=\boldsymbol{n})}^{n-\mathbb{l}}\sum_{n_s=n_i-j_i+1} \frac{(n_i-s)!}{(n_i-\boldsymbol{n})!\cdot(\boldsymbol{n}-s)!} $$

$D = \boldsymbol{n} < n \land I = \mathbb{l} + \mathbb{k} \land \mathbb{k} > 0 \Rightarrow$

$$ {}_0S^{\dot{I}ss} = \frac{(n-\boldsymbol{s}+1)!}{(\iota-I)!\cdot(D+I-\boldsymbol{s}+1)} $$

$D = \boldsymbol{n} < n \land I = \mathbb{l} + \mathbb{k} \land \mathbb{k} > 0 \Rightarrow$

$$ {}_0S^{\dot{I}ss} = \frac{(n-\boldsymbol{s}+1)!}{(\iota-I)!\cdot(n+I-\iota-\boldsymbol{s}+1)} $$

$D = \boldsymbol{n} < n \land I = \mathbb{l} + \mathbb{k} \land \mathbb{k} > 0 \Rightarrow$

$$ {}_0S^{\dot{I}ss} = \frac{(n-s-I+1)!}{(\iota-I)!\cdot(D-s+1)} $$

$D = \boldsymbol{n} < n \land I = \mathbb{l} + \mathbb{k} \land \mathbb{k} > 0 \Rightarrow$

$$ {}_0S^{\dot{I}ss} = \frac{(n-s-I+1)!}{(\iota-I)!\cdot(n-\iota-s+1)} $$

$D = \boldsymbol{n} < n \land I = \mathbb{l} + \mathbb{k} \land \mathbb{k}_z\colon z \geq 1 \Rightarrow$

$$ {}_0S^{\dot{I}ss} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{n-\mathbb{l}}\sum_{n_s=n_i-j_i-\mathbb{k}+1} \frac{(n_i-s-\mathbb{k})!}{(n_i-D-\mathbb{k})!\cdot(D-s)!} $$

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$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z \geq 1 \Rightarrow$

$$ {}_0S^{\text{iss}} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{n-\mathbb{l}} \sum_{n_s=n_i-j_i-\mathbb{k}+1} \frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})! \cdot (\boldsymbol{n}-s)!} $$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z : z = 1 \Rightarrow$

$$ {}_0S^{\text{iss}} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})! \cdot (\boldsymbol{n}-s)!} $$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z : z = 1 \Rightarrow$

$$ {}_0S^{\text{iss}} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-s)!} $$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z : z = 1 \Rightarrow$

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$$ {}_0S^{\text{iss}} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-s)!} $$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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$$ {}_{0}S^{İss}=(D-s)!\cdot\sum_{j^{sa}=j_{sa}}\sum_{(j_{ik}=j^{sa}-1)}\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1}\frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}-s)!} $$

$D=\boldsymbol{n}<n\wedge I=\mathbb{l}+\mathbb{k}\wedge\boldsymbol{s}=s+I\wedge\mathbb{k}_z:z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$ {}_{0}S^{İss}=(D-s)!\cdot\sum_{j^{sa}=j_{sa}}\sum_{(j_{ik}=j^{sa}-1)}\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1}\frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-s)!} $$

$D=\boldsymbol{n}<n\wedge I=\mathbb{l}+\mathbb{k}\wedge\boldsymbol{s}=s+I\wedge\mathbb{k}_z:z=1\Rightarrow$

$$ {}_{0}S^{İss}=(D-s)!\cdot\sum_{j^{sa}=j_{sa}}\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1}\frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}-s)!} $$

$D=\boldsymbol{n}<n\wedge I=\mathbb{l}+\mathbb{k}\wedge\boldsymbol{s}=s+I\wedge\mathbb{k}_z:z=1\Rightarrow$

$$ {}_{0}S^{İss}=(D-s)!\cdot\sum_{j^{sa}=j_{sa}}\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1}\frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-s)!} $$

$D=\boldsymbol{n}<n\wedge I=\mathbb{l}+\mathbb{k}\wedge\boldsymbol{s}=s+I\wedge\mathbb{k}_z:z=1\Rightarrow$

$$ {}_{0}S^{İss}=(D-s)!\cdot\sum_{j^{sa}=j_{sa}}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n-\mathbb{l}}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}\frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}-s)!} $$

$D=\boldsymbol{n}<n\wedge I=\mathbb{l}+\mathbb{k}\wedge\boldsymbol{s}=s+I\wedge\mathbb{k}_z:z=1\Rightarrow$

$$ {}_{0}S^{İss}=(D-s)!\cdot\sum_{j^{sa}=j_{sa}}\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n-\mathbb{l}}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

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$$\frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z : z = 1 \Rightarrow$

$${}_0S^{iss} = (D - s)! \cdot \sum_{j^{sa} = j_{sa}} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n - \mathbb{l}} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_{ik} + j_{ik} - s - \mathbb{k} - 1)!}{(n_{ik} + j_{ik} - \boldsymbol{n} - \mathbb{k} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$${}_0S^{iss} = (D - s)! \cdot \sum_{j^{sa} = j_{sa}} \sum_{(j_{ik} = j^{sa} - 1)} \sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n - \mathbb{l}} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$${}_0S^{iss} = (D - s)! \cdot \sum_{j^{sa} = j_{sa}} \sum_{(j_{ik} = j^{sa} - 1)} \sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n - \mathbb{l}} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$${}_0S^{iss} = (D - s)! \cdot \sum_{j^{sa} = j_{sa}} \sum_{(j_{ik} = j^{sa} - 1)} \sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n - \mathbb{l}} \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_{ik} + j_{ik} - s - \mathbb{k} - 1)!}{(n_{ik} + j_{ik} - \boldsymbol{n} - \mathbb{k} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \Rightarrow$

$${}_0S^{iss} = (D - s)! \cdot \sum_{j_s = 1} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}\left(\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}\right)_{j^{sa}}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

$I=\mathbb{l}+\Bbbk\wedge s>1\wedge\mathbb{l}>0\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\mathbb{l}+\Bbbk\wedge\Bbbk_z{:}\,z=1\Rightarrow$

$${}_0S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

$I=\mathbb{l}+\Bbbk\wedge s>1\wedge\mathbb{l}>0\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\mathbb{l}+\Bbbk\wedge\Bbbk_z{:}\,z=1\Rightarrow$

$${}_0S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}\frac{(n_i+j_s+j_{sa}-j^{sa}-s-\Bbbk-j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}+j_s+j_{sa}-j^{sa}-s-j_{sa}^{s})!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

$I=\mathbb{l}+\Bbbk\wedge s>1\wedge\mathbb{l}>0\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\mathbb{l}+\Bbbk\wedge\Bbbk_z{:}\,z=1\Rightarrow$

$${}_0S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk}$$

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - \mathbb{k} - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - j_{ik} - j^{sa} - s - 2 \cdot j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \Rightarrow$

$${}_0S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j^{sa} + j_{sa}^{s} - j_s - j_{sa} - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} + j^{sa} + j_{sa}^{s} - j_s - j_{sa} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \Rightarrow$

$${}_0S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{\left(n_i + 2 \cdot j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - \mathbb{k}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + 2 \cdot j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

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$${}_0S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

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$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \Rightarrow$

$$_0S^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} + j_{ik} + j_{sa}^s - j_s - j_{sa}^{ik} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \Rightarrow$

$$_0S^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} + 2 \cdot j_{ik} + j_{sa}^s + j_{sa} - j_s - j^{sa} - 2 \cdot j_{sa}^{ik} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \Rightarrow$

$$_0S^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} + j_{sa} - j^{sa} - s - \mathbb{k} - j_{sa}^{ik})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} + j_{ik} + j_{sa} - j^{sa} - s - j_{sa}^{ik})!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \Rightarrow$

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$$ {}_0S^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} $$

$$ \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{\left(n_i + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s - \mathbb{k}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa} - s\right)!} $$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$ {}_0S^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} $$

$$ \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \left( \frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!} \right)_{j^{sa}} $$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$ {}_0S^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} $$

$$ \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

$$ \frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!} $$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$ {}_0S^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} $$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i+j_s+j_{sa}-j_{ik}-s-\mathbb{k}-j_{sa}^s-1)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}+j_s+j_{sa}-j_{ik}-s-j_{sa}^s-1)!}$$

$D=\boldsymbol{n}<n \wedge \mathbb{k}=0 \wedge I=\mathbb{l} \wedge \boldsymbol{s}=s+\mathbb{l} \wedge j_{ik}=j^{sa}-1 \vee$

$I=\mathbb{l}+\mathbb{k} \wedge s>1 \wedge \mathbb{l}>0 \wedge \mathbb{k}>0 \wedge \boldsymbol{s}=s+\mathbb{l}+\mathbb{k} \wedge \mathbb{k}_z\colon z=1 \wedge j_{ik}=j^{sa}-1 \Rightarrow$

$${}_0S^{\dot{I}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{\left(n_i+2\cdot j_s+j_{sa}+j_{sa}^{ik}-2\cdot j^{sa}-s-\mathbb{k}-2\cdot j_{sa}^s+1\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+2\cdot j_s+j_{sa}+j_{sa}^{ik}-2\cdot j^{sa}-s-2\cdot j_{sa}^s+1\right)!}$$

$D=\boldsymbol{n}<n \wedge \mathbb{k}=0 \wedge I=\mathbb{l} \wedge \boldsymbol{s}=s+\mathbb{l} \wedge j_{ik}=j^{sa}-1 \vee$

$I=\mathbb{l}+\mathbb{k} \wedge s>1 \wedge \mathbb{l}>0 \wedge \mathbb{k}>0 \wedge \boldsymbol{s}=s+\mathbb{l}+\mathbb{k} \wedge \mathbb{k}_z\colon z=1 \wedge j_{ik}=j^{sa}-1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i+j_{ik}+j_{sa}^s-j_s-j_{sa}-s-\mathbb{k}+1)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}^s-j_s-j_{sa}-s+1)!}$$

$D=\boldsymbol{n}<n \wedge \mathbb{k}=0 \wedge I=\mathbb{l} \wedge \boldsymbol{s}=s+\mathbb{l} \wedge j_{ik}=j^{sa}-1 \vee$

$I=\mathbb{l}+\mathbb{k} \wedge s>1 \wedge \mathbb{l}>0 \wedge \mathbb{k}>0 \wedge \boldsymbol{s}=s+\mathbb{l}+\mathbb{k} \wedge \mathbb{k}_z\colon z=1 \wedge j_{ik}=j^{sa}-1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

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$$\frac{\left(n_i + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \mathbb{k} + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\frac{\left(n_i + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - \mathbb{k} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} + j_{sa} - j_s - 2 \cdot j_{sa}^{ik} - s - 1\right)!}$$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

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$$
{}_0S^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{\left(n_i + j_{sa} - s - \mathbb{k} - j_{sa}^{ik} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{sa} - s - j_{sa}^{ik} - 1\right)!}
$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

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$$
{}_0S^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{\left(n_i + j_{sa}^{ik} - j_{sa} - s - \mathbb{k} + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - j_{sa} - s + 1\right)!}
$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$$
{}_0S^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \left(\frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!}\right)_{j^{sa}}
$$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$${}_0S^{\dot{\imath}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\left(\frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\boldsymbol{n} - s)!}\right)_{j^{sa}}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

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$${}_0S^{\dot{\imath}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

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$${}_0S^{\dot{\imath}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i-s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge\mathbb{k}_z\colon z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\colon z=1\wedge\mathbb{k}=\mathbb{k}_2\Rightarrow$

$${}_0S^{İss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i+j_s+j_{sa}-j^{sa}-s-\mathbb{k}-j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}+j_s+j_{sa}-j^{sa}-s-j_{sa}^{s})!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge\mathbb{k}_z\colon z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

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$\mathbb{k}_z\colon z=1\wedge\mathbb{k}=\mathbb{k}_2\Rightarrow$

$${}_0S^{İss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i+j_s+j_{sa}-j^{sa}-s-\mathbb{k}_1-\mathbb{k}_2-j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot(\boldsymbol{n}+j_s+j_{sa}-j^{sa}-s-j_{sa}^{s})!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

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$$\frac{\left(n_i+2\cdot j_s+j_{sa}+j_{sa}^{ik}-j_{ik}-j^{sa}-s-\mathbb{k}-2\cdot j_{sa}^{s}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+2\cdot j_s+j_{sa}+j_{sa}^{ik}-j_{ik}-j^{sa}-s-2\cdot j_{sa}^{s}\right)!}$$

$D=\boldsymbol{n}<n \wedge \mathbb{k}=0 \wedge I=\mathbb{l} \wedge \boldsymbol{s}=s+\mathbb{l} \vee$

$I=\mathbb{l}+\mathbb{k} \wedge s>1 \wedge \mathbb{l}>0 \wedge \mathbb{k}>0 \wedge \boldsymbol{s}=s+\mathbb{l}+\mathbb{k} \wedge \mathbb{k}_z : z=2 \wedge \mathbb{k}=\mathbb{k}_1+\mathbb{k}_2 \vee$

$I=\mathbb{l}+\mathbb{k} \wedge s>1 \wedge \mathbb{l}>0 \wedge \mathbb{k}_2>0 \wedge \mathbb{k}_1=0 \wedge \boldsymbol{s}=s+\mathbb{l}+\mathbb{k} \wedge$

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$$ {}_0S^{İss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}+j_{sa}^{ik}-j_{ik}-j^{sa}-s-\mathbb{k}_1-\mathbb{k}_2-2\cdot j_{sa}^{s}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot\left(\boldsymbol{n}+2\cdot j_s+j_{sa}+j_{sa}^{ik}-j_{ik}-j^{sa}-s-2\cdot j_{sa}^{s}\right)!}$$

$D=\boldsymbol{n}<n \wedge \mathbb{k}=0 \wedge I=\mathbb{l} \wedge \boldsymbol{s}=s+\mathbb{l} \vee$

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$$ {}_0S^{İss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

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$$\frac{(n_i + j^{sa} + j_{sa}^{s} - j_s - j_{sa} - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} + j^{sa} + j_{sa}^{s} - j_s - j_{sa} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

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$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j^{sa} + j_{sa}^{s} - j_s - j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\boldsymbol{n} + j^{sa} + j_{sa}^{s} - j_s - j_{sa} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z{:}\, z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$${}_0S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{\left(n_i + 2 \cdot j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - \mathbb{k}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + 2 \cdot j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z{:}\, z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$$ {}_{0}S^{İSS} = (D - s)! \cdot \sum_{j_s = 1} \sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})} $$

$$ \sum_{(n_i = \boldsymbol{n} + \mathbb{k})}^{(n - \mathbb{l})} \sum_{(n_{ik} = n_i - j_{ik} - \mathbb{k}_1 + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} $$

$$ \frac{\left(n_i + 2 \cdot j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot \left(\boldsymbol{n} + 2 \cdot j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 2 \cdot j_{sa} - s\right)!} $$

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land I = \mathbb{l} \land \boldsymbol{s} = s + \mathbb{l} \lor$

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$$\frac{\left(n_i+j_{ik}+j_{sa}^{s}-j_s-j_{sa}^{ik}-s-\mathbb{k}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}^{s}-j_s-j_{sa}^{ik}-s\right)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

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$$\frac{\left(n_i+j_{ik}+j_{sa}-j^{sa}-s-\mathbb{k}_1-\mathbb{k}_2-j_{sa}^{ik}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}-j^{sa}-s-j_{sa}^{ik}\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

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$$\left(\frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\boldsymbol{n} - s)!}\right)_{j^{sa}}$$

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$${}_0S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j_s + j_{sa} - j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s - 1)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\boldsymbol{n} + j_s + j_{sa} - j_{ik} - s - j_{sa}^s - 1)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - \mathbb{k} - 2 \cdot j_{sa}^s + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa} + j_{sa}^{ik} - 2 \cdot j^{sa} - s - 2 \cdot j_{sa}^s + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

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$$ \frac{(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa} - s + 1)!} $$

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$$\frac{\left(n_i + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot \left(\boldsymbol{n} + j^{sa} + j_{sa}^{s} + j_{sa}^{ik} - j_s - 2 \cdot j_{sa} - s + 1\right)!}$$

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$${}_0S^{\dot{I}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

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$$\frac{\left(n_i+j^{sa}+j_{sa}^{s}-j_s-j_{sa}^{ik}-s-\mathbb{k}-1\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j^{sa}+j_{sa}^{s}-j_s-j_{sa}^{ik}-s-1\right)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\ \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\ \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

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$$\frac{\left(n_i+j_{ik}+j_{sa}^{s}+j_{sa}-j_s-2\cdot j_{sa}^{ik}-s-\mathbb{k}_1-\mathbb{k}_2-1\right)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}^{s}+j_{sa}-j_s-2\cdot j_{sa}^{ik}-s-1\right)!}$$

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$$\frac{\left(n_i+j_{sa}-s-\mathbb{k}_1-\mathbb{k}_2-j_{sa}^{ik}-1\right)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot\left(\boldsymbol{n}+j_{sa}-s-j_{sa}^{ik}-1\right)!}$$

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$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j^{sa}-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\colon z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\wedge j_{ik}=j^{sa}-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

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$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$${}_{0}S^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{\left(n_i + j_{sa}^{ik} - j_{sa} - s - \mathbb{k}_1 - \mathbb{k}_2 + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - j_{sa} - s + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z: z = 1 \Rightarrow$

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$${}_0S^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i+j_s-s-\mathbb{k}-j_{sa}^s)!}{(n_i+j_s-\boldsymbol{n}-\mathbb{k}-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(n_i+j_s-s-\mathbb{k}_1-\mathbb{k}_2-j_{sa}^s)!}{(n_i+j_s-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

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$\mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$${}_0S^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i+j_s-s-\mathbb{k}-j_{sa}^s)!}{(n_i+j_s-\boldsymbol{n}-\mathbb{k}-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - \mathbb{k} + 2)!}{(2 \cdot n_i - n_{ik} - j_{ik} - \boldsymbol{n} - \mathbb{k} - j_{sa}^{s} + 2)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(2 \cdot n_i + j_s - n_{ik} - j_{ik} - s - \mathbb{k})!}{(2 \cdot n_i + 2 \cdot j_s - n_{ik} - j_{ik} - \boldsymbol{n} - \mathbb{k} - j_{sa}^{s})! \cdot (\boldsymbol{n} + j_{sa}^{s} - s - j_s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\frac{(n_{ik} + j^{sa} - j_s - s - \mathbb{k} - 1)!}{(n_{ik} + j^{sa} - \boldsymbol{n} - \mathbb{k} - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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$$_{0}S^{İSS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{I})}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}\frac{\left(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^{s}\right)!}{(n_{ik}+j^{sa}-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s}-1)!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j^{sa}+1\right)!}$$

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$I=\mathbb{I}+\mathbb{k}\wedge s>1\wedge\mathbb{I}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{I}+\mathbb{k}\wedge\mathbb{k}_z\colon z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$_{0}S^{İSS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{I})}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}\frac{(2\cdot n_i-n_{ik}-j_s-j^{sa}-s-\mathbb{k}+3)!}{(2\cdot n_i-n_{ik}-j^{sa}-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s}+3)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{I}\wedge\boldsymbol{s}=s+\mathbb{I}\wedge j_{ik}=j^{sa}-1\vee$

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$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_{ik} - s - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 + 2)!}{(2 \cdot n_i - n_{ik} - j_{ik} - \boldsymbol{n} - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^{s} + 2)! \cdot (\boldsymbol{n} - s)!}$$

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$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z\!: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$\mathbb{k}_z\!: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$$_0S^{İSS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_s - j_{ik} - s - 2 \cdot \mathbb{k} + 2)!}{(2 \cdot n_i + \mathbb{k}_2 - n_{ik} - j_{ik} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} + 2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land I = \mathbb{l} \land \boldsymbol{s} = s + \mathbb{l} \land j_{ik} = j^{sa} - 1 \lor$

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$$\frac{(n_{ik} + j^{sa} - j_s - s - \mathbb{k}_2 - 1)!}{(n_{ik} + j^{sa} - \boldsymbol{n} - \mathbb{k}_2 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land I = \mathbb{l} \land \boldsymbol{s} = s + \mathbb{l} \land j_{ik} = j^{sa} - 1 \lor$

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$$ \frac{\left(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}_2-j_{sa}^{s}\right)!}{(n_{ik}+j^{sa}-\boldsymbol{n}-\mathbb{k}_2-j_{sa}^{s}-1)! \cdot \left(\boldsymbol{n}+j_{sa}^{ik}-s-j^{sa}+1\right)!} $$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{()}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(2\cdot n_i+j_s-n_{sa}-j^{sa}-s-2\cdot\mathbb{k})!}{(2\cdot n_i+2\cdot j_s-n_{sa}-j^{sa}-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

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$${}_0S^{İss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{()}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_{sa}-j_{ik}-j^{sa}-s-2\cdot\mathbb{k})!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_{sa}-j_{ik}-j^{sa}-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(n_i + n_{ik} + j_{ik} - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k})!}{(n_i + n_{ik} + j_s + j_{ik} - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

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$$_0S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(2 \cdot n_i + j_s - n_{sa} - j_{ik} - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j_{ik} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_{sa}-2\cdot j^{sa}-s-2\cdot\mathbb{k}+1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_{sa}-2\cdot j^{sa}-\boldsymbol{n}-2\cdot\mathbb{k})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j^{sa}-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge\mathbb{k}_z\colon z=1\wedge j_{ik}=j^{sa}-1\Rightarrow$

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$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_{sa}-2\cdot j_{ik}-s-2\cdot\mathbb{k}-1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_{sa}-2\cdot j_{ik}-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j^{sa}-1\vee$

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$$\frac{(2\cdot n_{ik}+j_{ik}-n_{sa}-j_s-s-2\cdot\mathbb{k}-1)!}{(2\cdot n_{ik}+j_{ik}-n_{sa}-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(n_i + n_{ik} - n_{sa} - s - 2 \cdot \mathbb{k} - 1)!}{(n_i + n_{ik} + j_s - n_{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

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$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

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$$\frac{(n_{sa} + j^{sa} - j_s - s)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

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$$\frac{(n_{sa} + j_{sa} - s - j_{sa}^s)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - j_{sa}^s)! \cdot (\boldsymbol{n} + j_{sa} - s - j^{sa})!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

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$$\frac{(2\cdot n_i - n_{sa} - j_s - j^{sa} - s - 2\cdot\mathbb{k}_1 - 2\cdot\mathbb{k}_2 + 2)!}{(2\cdot n_i - n_{sa} - j^{sa} - \boldsymbol{n} - 2\cdot\mathbb{k}_1 - 2\cdot\mathbb{k}_2 - j_{sa}^{s} + 2)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(2\cdot n_i - n_{sa} - j_s - j^{sa} - s - 2\cdot\mathbb{k} + 2)!}{(2\cdot n_i - n_{sa} - j^{sa} - \boldsymbol{n} - 2\cdot\mathbb{k} - j_{sa}^{s} + 2)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(3\cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 3\cdot\mathbb{k}_1 - 2\cdot\mathbb{k}_2 + 3)!}{(3\cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - \boldsymbol{n} - 3\cdot\mathbb{k}_1 - 2\cdot\mathbb{k}_2 - j_{sa}^{s} + 3)!\cdot(\boldsymbol{n}-s)!}$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - j_{ik} - j^{sa} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 + 3)!}{(3 \cdot n_i - n_{ik} - n_{sa} - j_{ik} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^{s} + 3)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(2 \cdot n_i + j_s - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2)!}{(2 \cdot n_i + 2 \cdot j_s - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(2\cdot n_i+j_s-n_{sa}-j^{sa}-s-2\cdot\mathbb{k})!}{(2\cdot n_i+2\cdot j_s-n_{sa}-j^{sa}-\boldsymbol{n}-2\cdot\mathbb{k}-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

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$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_{sa}-j_{ik}-j^{sa}-s-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_{sa}-j_{ik}-j^{sa}-\boldsymbol{n}-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2-j_{sa}^{s})!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

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$\mathbb{k}_z : z = 1 \land \mathbb{k} = \mathbb{k}_2 \Rightarrow$

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$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k}_2)!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k}_2 - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land I = \mathbb{l} \land \boldsymbol{s} = s + \mathbb{l} \lor$

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$$\frac{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \mathbb{k}_1 - n_{sa} - j_s - j^{sa} - s - 2 \cdot \mathbb{k})!}{(2 \cdot n_{ik} + 2 \cdot j_{ik} + 2 \cdot \mathbb{k}_1 - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(n_i + n_{ik} + j_{ik} - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1)!}{(n_i + n_{ik} + j_s + j_{ik} - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z \colon z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z \colon z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$${}_0S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} + j_{ik} + \mathbb{k}_1 - n_{sa} - j^{sa} - s - 2 \cdot \mathbb{k})!}{(n_i + n_{ik} + j_s + j_{ik} + \mathbb{k}_1 - n_{sa} - j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z \colon z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$

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$\mathbb{k}_z \colon z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$${}_0S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_{sa} + j_{ik} - j_s - s + 1)!}{(n_{sa} + j_{ik} - \boldsymbol{n} - j_{sa}^{s} + 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

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$\mathbb{k}_z \colon z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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$$ {}_{0}S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} $$

$$ \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} $$

$$ \frac{(n_{sa}+j_{sa}-s-j_{sa}^{s})!}{(n_{sa}+j_{ik}-\boldsymbol{n}-j_{sa}^{s}+1)! \cdot (\boldsymbol{n}+j_{sa}-s-j_{ik}-1)!} $$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$

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$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$ {}_{0}S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} $$

$$ \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} $$

$$ \frac{(2 \cdot n_i - n_{sa} - j_s - j_{ik} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 1)!}{(2 \cdot n_i - n_{sa} - j_{ik} - \boldsymbol{n} - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^{s} + 1)! \cdot (\boldsymbol{n} - s)!} $$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\frac{(2 \cdot n_i - n_{sa} - j_s - j_{ik} - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_i - n_{sa} - j_{ik} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} + 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

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$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$${}_0S^{İss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j^{sa} - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 4)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \boldsymbol{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^{s} + 4)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

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$$\frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j_{ik} - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 + 2)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j_{ik} - \boldsymbol{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^{s} + 2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

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$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z\colon z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$ {}_0S^{iss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)} $$

$$ \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} $$

$$ \frac{(3 \cdot n_i - n_{ik} - n_{sa} - j_s - 2 \cdot j^{sa} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 + 4)!}{(3 \cdot n_i - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^{s} + 4)! \cdot (\boldsymbol{n} - s)!} $$

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$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(2\cdot n_i+j_s-n_{sa}-j_{ik}-s-2\cdot\Bbbk_1-2\cdot\Bbbk_2-1)!}{(2\cdot n_i+2\cdot j_s-n_{sa}-j_{ik}-\boldsymbol{n}-2\cdot\Bbbk_1-2\cdot\Bbbk_2-j_{sa}^s-1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j^{sa}-1\vee$

$I=\mathbb{l}+\Bbbk\wedge s>1\wedge\mathbb{l}>0\wedge\Bbbk>0\wedge\boldsymbol{s}=s+\mathbb{l}+\Bbbk\wedge$

$\Bbbk_z: z=2\wedge\Bbbk=\Bbbk_1+\Bbbk_2\wedge j_{ik}=j^{sa}-1\vee$

$I=\mathbb{l}+\Bbbk\wedge s>1\wedge\mathbb{l}>0\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\mathbb{l}+\Bbbk\wedge$

$\Bbbk_z: z=1\wedge\Bbbk=\Bbbk_2\wedge j_{ik}=j^{sa}-1\Rightarrow$

$${}_0S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}$$

$$\frac{(2\cdot n_i+j_s-n_{sa}-j_{ik}-s-2\cdot\Bbbk-1)!}{(2\cdot n_i+2\cdot j_s-n_{sa}-j_{ik}-\boldsymbol{n}-2\cdot\Bbbk-j_{sa}^s-1)!\cdot(\boldsymbol{n}-s)!}$$

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$I=\mathbb{l}+\Bbbk\wedge s>1\wedge\mathbb{l}>0\wedge\Bbbk_2>0\wedge\Bbbk_1=0\wedge\boldsymbol{s}=s+\mathbb{l}+\Bbbk\wedge$

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$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_{sa}-2\cdot j^{sa}-s-3\cdot\Bbbk_1-2\cdot\Bbbk_2+1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_{sa}-2\cdot j^{sa}-\boldsymbol{n}-3\cdot\Bbbk_1-2\cdot\Bbbk_2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\Bbbk=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j^{sa}-1\vee$

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$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

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$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$${}_0S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - s - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j_{ik} - \boldsymbol{n} - 3 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 + 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_{sa} - 2 \cdot j^{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

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$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

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$$_{0}S^{İss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_{sa}-2\cdot j_{ik}-s-2\cdot\mathbb{k}-\mathbb{k}_1-1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_{sa}-2\cdot j_{ik}-\boldsymbol{n}-2\cdot\mathbb{k}-\mathbb{k}_1-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j^{sa}-1\vee$

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$\mathbb{k}_z\!:z=1\wedge\mathbb{k}=\mathbb{k}_2\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$_{0}S^{İss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(2\cdot n_{ik}+j_{ik}-n_{sa}-j_s-s-2\cdot\mathbb{k}_2-1)!}{(2\cdot n_{ik}+j_{ik}-n_{sa}-\boldsymbol{n}-2\cdot\mathbb{k}_2-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j^{sa}-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\!:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\wedge j_{ik}=j^{sa}-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\!:z=1\wedge\mathbb{k}=\mathbb{k}_2\wedge j_{ik}=j^{sa}-1\Rightarrow$

$$_{0}S^{İss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

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$$\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_{sa} - j_s - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$${}_0S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} - n_{sa} - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 1)!}{(n_i + n_{ik} + j_s - n_{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j^{sa} - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j^{sa} - 1 \vee$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} + \mathbb{k}_1 - n_{sa} - s - 2 \cdot \mathbb{k} - 1)!}{(n_i + n_{ik} + j_s + \mathbb{k}_1 - n_{sa} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

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$$_{0}S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\left(\frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}-s)!}\right)_{j_i}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge\mathbb{k}_z:z=1\Rightarrow$

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$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_i+j_s-j_i-\mathbb{k}-j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}+j_s-j_i-j_{sa}^{s})!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \mathbb{k} - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s}\right)!}$$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

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$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \mathbb{k} - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

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$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \mathbb{k}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - j_{sa}^{ik} - s\right)!}$$

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$$\frac{\left(n_i + 2 \cdot j_{ik} + j_{sa}^{s} - j_s - j_i - 2 \cdot j_{sa}^{ik} - \mathbb{k}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + 2 \cdot j_{ik} + j_{sa}^{s} - j_s - j_i - 2 \cdot j_{sa}^{ik}\right)!}$$

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$$\frac{\left(n_i + j_{ik} - j_i - \mathbb{k} - j_{sa}^{ik}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{ik} - j_i - j_{sa}^{ik}\right)!}$$

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$$\frac{(n_i + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} + j_i + j_{sa}^{ik} - j_{ik} - 2 \cdot s)!}$$

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$$ {}_{0}S^{\text{İ}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} $$

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$$ \frac{(n_i + j_s - j_{ik} - \mathbb{k} - j_{sa}^{s} - 1)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} + j_s - j_{ik} - j_{sa}^{s} - 1)!} $$

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$$ \frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k} - 2 \cdot j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^{s} + 1\right)!} $$

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$$ \frac{(n_i + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot s - \mathbb{k} + 1)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot s + 1)!} $$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{\left(n_i + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k} + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s + 1\right)!}$$

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$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S^{\text{İ}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{\left(n_i + j_i + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} - j_s - j_{sa}^{ik} - s - 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S^{\text{İ}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

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$$\frac{\left(n_i+j_{ik}+j_{sa}^{s}-j_s-2\cdot j_{sa}^{ik}-\mathbb{k}-1\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}^{s}-j_s-2\cdot j_{sa}^{ik}-1\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge\mathbb{k}_z\!:z=1\wedge j_{ik}=j_i-1\Rightarrow$

$${}_0S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{\left(n_i-\mathbb{k}-j_{sa}^{ik}-1\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}-j_{sa}^{ik}-1\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge\mathbb{k}_z\!:z=1\wedge j_{ik}=j_i-1\Rightarrow$

$${}_0S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\;)}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{\left(n_i+j_{sa}^{ik}-2\cdot s-\mathbb{k}+1\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-2\cdot s+1\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge\mathbb{k}_z\!:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\!:z=1\wedge\mathbb{k}=\mathbb{k}_2\Rightarrow$

$${}_0S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\;)}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

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$$\left(\frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!}\right)_{j_i}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z\!: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z\!: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$${}_0S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ \ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\left(\frac{(n_i - s - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\boldsymbol{n} - s)!}\right)_{j_i}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z\!: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$${}_0S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ \ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z\!: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$\mathbb{k}_z\!: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

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$$ {}_0S^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} $$

$$ \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} $$

$$ \frac{(n_i-s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot(\boldsymbol{n}-s)!} $$

$D=\boldsymbol{n}<n \wedge \mathbb{k}=0 \wedge I=\mathbb{l} \wedge \boldsymbol{s}=s+\mathbb{l} \vee$

$I=\mathbb{l}+\mathbb{k} \wedge s>1 \wedge \mathbb{l}>0 \wedge \mathbb{k}>0 \wedge \boldsymbol{s}=s+\mathbb{l}+\mathbb{k} \wedge \mathbb{k}_z: z=2 \wedge \mathbb{k}=\mathbb{k}_1+\mathbb{k}_2 \vee$

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$\mathbb{k}_z: z=1 \wedge \mathbb{k}=\mathbb{k}_2 \Rightarrow$

$$ {}_0S^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} $$

$$ \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} $$

$$ \frac{(n_i+j_s-j_i-\mathbb{k}-j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}+j_s-j_i-j_{sa}^{s})!} $$

$D=\boldsymbol{n}<n \wedge \mathbb{k}=0 \wedge I=\mathbb{l} \wedge \boldsymbol{s}=s+\mathbb{l} \vee$

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$\mathbb{k}_z: z=1 \wedge \mathbb{k}=\mathbb{k}_2 \Rightarrow$

$$ {}_0S^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} $$

$$ \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} $$

$$ \frac{(n_i+j_s-j_i-\mathbb{k}_1-\mathbb{k}_2-j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot(\boldsymbol{n}+j_s-j_i-j_{sa}^{s})!} $$

$D=\boldsymbol{n}<n \wedge \mathbb{k}=0 \wedge I=\mathbb{l} \wedge \boldsymbol{s}=s+\mathbb{l} \vee$

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$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$\mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$${}_0S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \mathbb{k} - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

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$\mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$${}_0S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \mathbb{k}_1 - \mathbb{k}_2 - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$${}_0S^{\dot{I}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\ \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\ \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i+j_i+j_{sa}^{s}-j_s-2\cdot s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot(\boldsymbol{n}+j_i+j_{sa}^{s}-j_s-2\cdot s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge\mathbb{k}_z\!:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\!:z=1\wedge\mathbb{k}=\mathbb{k}_2\Rightarrow$

$${}_0S^{\dot{I}ss}=(D-s)!\cdot\sum_{j_s=1}\ \sum_{j_{ik}=j_{sa}^{ik}}\ \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\ \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\ \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i+j_i+j_{sa}^{s}-j_s-2\cdot s-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot(\boldsymbol{n}+j_i+j_{sa}^{s}-j_s-2\cdot s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge\mathbb{k}_z\!:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\!:z=1\wedge\mathbb{k}=\mathbb{k}_2\Rightarrow$

$${}_0S^{\dot{I}ss}=(D-s)!\cdot\sum_{j_s=1}\ \sum_{j_{ik}=j_{sa}^{ik}}\ \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\ \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\ \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{\left(n_i+2\cdot j_i+j_{sa}^{s}+j_{sa}^{ik}-j_s-j_{ik}-3\cdot s-\mathbb{k}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+2\cdot j_i+j_{sa}^{s}+j_{sa}^{ik}-j_s-j_{ik}-3\cdot s\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge\mathbb{k}_z\!:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

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$\Bbbk_z : z = 1 \land \Bbbk = \Bbbk_2 \Rightarrow$

$$_0S^{İss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{\left(n_i + 2 \cdot j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s - \Bbbk_1 - \Bbbk_2\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2)! \cdot \left(\boldsymbol{n} + 2 \cdot j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - j_{ik} - 3 \cdot s\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land I = \mathbb{l} \land \boldsymbol{s} = s + \mathbb{l} \lor$

$I = \mathbb{l} + \Bbbk \land s > 1 \land \mathbb{l} > 0 \land \Bbbk > 0 \land \boldsymbol{s} = s + \mathbb{l} + \Bbbk \land \Bbbk_z : z = 2 \land \Bbbk = \Bbbk_1 + \Bbbk_2 \lor$

$I = \mathbb{l} + \Bbbk \land s > 1 \land \mathbb{l} > 0 \land \Bbbk_2 > 0 \land \Bbbk_1 = 0 \land \boldsymbol{s} = s + \mathbb{l} + \Bbbk \land$

$\Bbbk_z : z = 1 \land \Bbbk = \Bbbk_2 \Rightarrow$

$$_0S^{İss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_{ik} - s - \Bbbk - j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_{ik} - s - j_{sa}^{s}\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land I = \mathbb{l} \land \boldsymbol{s} = s + \mathbb{l} \lor$

$I = \mathbb{l} + \Bbbk \land s > 1 \land \mathbb{l} > 0 \land \Bbbk > 0 \land \boldsymbol{s} = s + \mathbb{l} + \Bbbk \land \Bbbk_z : z = 2 \land \Bbbk = \Bbbk_1 + \Bbbk_2 \lor$

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$$_0S^{İss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

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$$\frac{\left(n_i+j_s+j_{sa}^{ik}-j_{ik}-s-\mathbb{k}_1-\mathbb{k}_2-j_{sa}^{s}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot\left(\boldsymbol{n}+j_s+j_{sa}^{ik}-j_{ik}-s-j_{sa}^{s}\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge\mathbb{k}_z{:}\,z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z{:}\,z=1\wedge\mathbb{k}=\mathbb{k}_2\Rightarrow$

$${}_0S^{İss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}^{s}-j_s-j_{sa}^{ik}-s-\mathbb{k}\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}^{s}-j_s-j_{sa}^{ik}-s\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge\mathbb{k}_z{:}\,z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

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$\mathbb{k}_z{:}\,z=1\wedge\mathbb{k}=\mathbb{k}_2\Rightarrow$

$${}_0S^{İss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{\left(n_i+j_{ik}+j_{sa}^{s}-j_s-j_{sa}^{ik}-s-\mathbb{k}_1-\mathbb{k}_2\right)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot\left(\boldsymbol{n}+j_{ik}+j_{sa}^{s}-j_s-j_{sa}^{ik}-s\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge\mathbb{k}_z{:}\,z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\vee$

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$$_0S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

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$$\frac{\left(n_i + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik} - \Bbbk\right)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot \left(\boldsymbol{n} + 2 \cdot j_{ik} + j_{sa}^s - j_s - j_i - 2 \cdot j_{sa}^{ik}\right)!}$$

$D = \boldsymbol{n} < n \land \Bbbk = 0 \land I = \mathbb{l} \land \boldsymbol{s} = s + \mathbb{l} \lor$

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$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - \mathbb{k} - 2 \cdot j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - 2 \cdot j_i - 2 \cdot j_{sa}^{s} + 1\right)!}$$

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$$_0S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i+j_{ik}+j_{sa}^s-j_s-2\cdot s-\mathbb{k}_1-\mathbb{k}_2+1)!}{(n_i-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2)!\cdot(\boldsymbol{n}+j_{ik}+j_{sa}^s-j_s-2\cdot s+1)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\!:z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\!:z=1\wedge\mathbb{k}=\mathbb{k}_2\wedge j_{ik}=j_i-1\Rightarrow$

$$_0S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{\left(n_i+j_i+j_{sa}^s+j_{sa}^{ik}-j_s-3\cdot s-\mathbb{k}+1\right)!}{(n_i-\boldsymbol{n}-\mathbb{k})!\cdot\left(\boldsymbol{n}+j_i+j_{sa}^s+j_{sa}^{ik}-j_s-3\cdot s+1\right)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

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$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\!:z=1\wedge\mathbb{k}=\mathbb{k}_2\wedge j_{ik}=j_i-1\Rightarrow$

$$_0S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{\left(n_i + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^{s} + j_{sa}^{ik} - j_s - 3 \cdot s + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z\colon z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z\colon z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_{0}S^{\text{İSS}} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_i - s - \mathbb{k} - j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^{s} + 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z\colon z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{\left(n_i + j_s + j_{sa}^{ik} - j_i - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^{s} + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot \left(\boldsymbol{n} + j_s + j_{sa}^{ik} - j_i - s - j_{sa}^{s} + 1\right)!}$$

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$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

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$\mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S^{iss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{\left(n_i + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - \mathbb{k} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_i + j_{sa}^s - j_s - j_{sa}^{ik} - s - 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

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$\mathbb{k}_z: z = 1 \land \mathbb{k} = \mathbb{k}_2 \land j_{ik} = j_i - 1 \Rightarrow$

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$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot j_{sa}^{ik} - 1\right)!}$$

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land I = \mathbb{l} \land \boldsymbol{s} = s + \mathbb{l} \land j_{ik} = j_i - 1 \lor$

$I = \mathbb{l} + \mathbb{k} \land s > 1 \land \mathbb{l} > 0 \land \mathbb{k} > 0 \land \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \land$

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$$\frac{\left(n_i + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2 - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot \left(\boldsymbol{n} + j_{ik} + j_{sa}^{s} - j_s - 2 \cdot j_{sa}^{ik} - 1\right)!}$$

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$${}_0S^{\text{İ}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{\left(n_i - \mathbb{k} - j_{sa}^{ik} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} - j_{sa}^{ik} - 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

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$\mathbb{k}_z\colon z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{\left(n_i - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^{ik} - 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot \left(\boldsymbol{n} - j_{sa}^{ik} - 1\right)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z\colon z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

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$\mathbb{k}_z\colon z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S^{\text{İ}ss} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{\left(n_i + j_{sa}^{ik} - 2 \cdot s - \mathbb{k} + 1\right)!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot \left(\boldsymbol{n} + j_{sa}^{ik} - 2 \cdot s + 1\right)!}$$

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$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land I = \mathbb{l} \land \boldsymbol{s} = s + \mathbb{l} \land j_{ik} = j_i - 1 \lor$

$I = \mathbb{l} + \mathbb{k} \land s > 1 \land \mathbb{l} > 0 \land \mathbb{k} > 0 \land \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \land$

$\mathbb{k}_z\colon z = 2 \land \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \land j_{ik} = j_i - 1 \lor$

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$\mathbb{k}_z\colon z = 1 \land \mathbb{k} = \mathbb{k}_2 \land j_{ik} = j_i - 1 \Rightarrow$

$$ {}_0S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_i + j_{sa}^{ik} - 2\cdot s - \mathbb{k}_1 - \mathbb{k}_2 + 1)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\boldsymbol{n} + j_{sa}^{ik} - 2\cdot s + 1)!} $$

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land I = \mathbb{l} \land \boldsymbol{s} = s + \mathbb{l} \lor$

$I = \mathbb{l} + \mathbb{k} \land s > 1 \land \mathbb{l} > 0 \land \mathbb{k} > 0 \land \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \land \mathbb{k}_z\colon z = 1 \Rightarrow$

$$ {}_0S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(n_i + j_s - s - \mathbb{k} - j_{sa}^{s})!}{(n_i + j_s - \boldsymbol{n} - \mathbb{k} - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!} $$

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land I = \mathbb{l} \land \boldsymbol{s} = s + \mathbb{l} \land j_{ik} = j_i - 1 \lor$

$I = \mathbb{l} + \mathbb{k} \land s > 1 \land \mathbb{l} > 0 \land \mathbb{k} > 0 \land \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \land \mathbb{k}_z\colon z = 1 \land j_{ik} = j_i - 1 \Rightarrow$

$$ {}_0S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(n_i + j_s - s - \mathbb{k} - j_{sa}^{s})!}{(n_i + j_s - \boldsymbol{n} - \mathbb{k} - j_{sa}^{s})! \cdot (\boldsymbol{n} - s)!} $$

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$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$\mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \Rightarrow$

$${}_0S^{İSS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_s - s - \mathbb{k} - j_{sa}^s)!}{(n_i + j_s - \boldsymbol{n} - \mathbb{k} - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + j_s - s - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s)!}{(n_i + j_s - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^s)! \cdot (\boldsymbol{n} - s)!}$$

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$\mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S^{İSS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}\frac{(n_i+j_s-s-\mathbb{k}-j_{sa}^s)!}{(n_i+j_s-\boldsymbol{n}-\mathbb{k}-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\colon z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\wedge j_{ik}=j_i-1\vee$

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$${}_0S^{\text{İ}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}\frac{(n_i+j_s-s-\mathbb{k}_1-\mathbb{k}_2-j_{sa}^s)!}{(n_i+j_s-\boldsymbol{n}-\mathbb{k}_1-\mathbb{k}_2-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge\mathbb{k}_z\colon z=1\Rightarrow$

$${}_0S^{\text{İ}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}\frac{(n_{ik}+j_{ik}-j_s-s-\mathbb{k})!}{(n_{ik}+j_{ik}-\boldsymbol{n}-\mathbb{k}-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{\left(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^{s}\right)!}{(n_{ik}+j_{ik}-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s})!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j_{ik}\right)!}$$

$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land I = \mathbb{l} \land \boldsymbol{s} = s + \mathbb{l} \lor$

$I = \mathbb{l} + \mathbb{k} \land s > 1 \land \mathbb{l} > 0 \land \mathbb{k} > 0 \land \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \land \mathbb{k}_z\!: z = 1 \Rightarrow$

$${}_0S^{İss} = (D-s)!\cdot\sum_{j_s=1}\ \sum_{j_{ik}=j_{sa}^{ik}}\ \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\ \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\ \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(2\cdot n_i-n_{ik}-j_s-j_{ik}-s-\mathbb{k}+2)!}{(2\cdot n_i-n_{ik}-j_{ik}-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

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$D = \boldsymbol{n} < n \land \mathbb{k} = 0 \land I = \mathbb{l} \land \boldsymbol{s} = s + \mathbb{l} \land j_{ik} = j_i - 1 \lor$

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$$\frac{(n_{ik}+j_i-j_s-s-\mathbb{k}-1)!}{(n_{ik}+j_i-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j_i-1\vee$

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$${}_{0}S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{\left(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^{s}\right)!}{(n_{ik}+j_i-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s}-1)!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j_i+1\right)!}$$

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$$\frac{(2\cdot n_i-n_{ik}-j_s-j_i-s-\mathbb{k}+3)!}{(2\cdot n_i-n_{ik}-j_i-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s}+3)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j_i-1\vee$

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$$\frac{(2\cdot n_i+j_s-n_{ik}-j_i-s-\mathbb{k}+1)!}{(2\cdot n_i+2\cdot j_s-n_{ik}-j_i-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s}+1)!\cdot(\boldsymbol{n}-s)!}$$

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$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \vee$

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$$\frac{(n_{ik}+j_{ik}-j_s-s-\mathbb{k}_2)!}{(n_{ik}+j_{ik}-\boldsymbol{n}-\mathbb{k}_2-j_{sa}^{s})! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

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$$\frac{(n_{ik}+j_{ik}+\mathbb{k}_1-j_s-s-\mathbb{k})!}{(n_{ik}+j_{ik}+\mathbb{k}_1-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s})! \cdot (\boldsymbol{n}-s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \vee$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{\left(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}_2-j_{sa}^{s}\right)!}{(n_{ik}+j_{ik}-\boldsymbol{n}-\mathbb{k}_2-j_{sa}^{s})!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j_{ik}\right)!}$$

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$$\frac{\left(n_{ik}+j_{sa}^{ik}+\mathbb{k}_1-s-\mathbb{k}-j_{sa}^{s}\right)!}{(n_{ik}+j_{ik}+\mathbb{k}_1-\boldsymbol{n}-\mathbb{k}-j_{sa}^{s})!\cdot\left(\boldsymbol{n}+j_{sa}^{ik}-s-j_{ik}\right)!}$$

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$$\frac{(2\cdot n_i-n_{ik}-j_s-j_{ik}-s-2\cdot\mathbb{k}_1-\mathbb{k}_2+2)!}{(2\cdot n_i-n_{ik}-j_{ik}-\boldsymbol{n}-2\cdot\mathbb{k}_1-\mathbb{k}_2-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

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$\Bbbk_z : z = 1 \wedge \Bbbk = \Bbbk_2 \Rightarrow$

$${}_0S^{İss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=s)}$$

$$\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\Bbbk_2}$$

$$\frac{(2 \cdot n_i + \Bbbk_2 - n_{ik} - j_s - j_{ik} - s - 2 \cdot \Bbbk + 2)!}{(2 \cdot n_i + \Bbbk_2 - n_{ik} - j_{ik} - \boldsymbol{n} - 2 \cdot \Bbbk - j_{sa}^{s} + 2)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

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$$\frac{(n_{ik} + j_i - j_s - s - \Bbbk_2 - 1)!}{(n_{ik} + j_i - \boldsymbol{n} - \Bbbk_2 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \Bbbk = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(n_{ik}+j_i+\mathbb{k}_1-j_s-s-\mathbb{k}-1)!}{(n_{ik}+j_i+\mathbb{k}_1-\boldsymbol{n}-\mathbb{k}-j_{sa}^s-1)!\cdot(\boldsymbol{n}-s)!}$$

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$${}_0S^{\dot{\mathrm{I}}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_i - n_{ik} - j_s - j_i - s - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 + 3)!}{(2 \cdot n_i - n_{ik} - j_i - \boldsymbol{n} - 2 \cdot \mathbb{k}_1 - \mathbb{k}_2 - j_{sa}^{s} + 3)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

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$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}}$$

$$\frac{(n_s+j_i-j_s-s)!}{(n_s+j_i-\boldsymbol{n}-j_{sa}^s)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge\mathbb{k}_z\colon z=1\Rightarrow$

$${}_0S^{\text{İ}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=s)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{()} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}} \frac{(2 \cdot n_i - n_s - j_s - j_{ik} - s - 2 \cdot \mathbb{k} + 1)!}{(2 \cdot n_i - n_s - j_{ik} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} + 1)! \cdot (\boldsymbol{n} - s)!}$$

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$$\frac{(2\cdot n_i+j_s-n_s-j_{ik}-s-2\cdot \mathbb{k}-1)!}{(2\cdot n_i+2\cdot j_s-n_s-j_{ik}-\boldsymbol{n}-2\cdot \mathbb{k}-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

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$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\!: z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\!: z=1\wedge\mathbb{k}=\mathbb{k}_2\wedge j_{ik}=j_i-1\Rightarrow$

$${}_0S^{İSS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} \frac{(3\cdot n_i-n_{ik}-n_s-j_s-2\cdot j_{ik}-s-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2+2)!}{(3\cdot n_i-n_{ik}-n_s-2\cdot j_{ik}-\boldsymbol{n}-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j_i-1\vee$

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$I=\mathbb{l}+\mathbb{k}\land s>1\land \mathbb{l}>0\land \mathbb{k}>0\land \boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\land$

$\mathbb{k}_z\!: z=2\land \mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\land j_{ik}=j_i-1\lor$

$I=\mathbb{l}+\mathbb{k}\land s>1\land \mathbb{l}>0\land \mathbb{k}_2>0\land \mathbb{k}_1=0\land \boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\land$

$\mathbb{k}_z\!: z=1\land \mathbb{k}=\mathbb{k}_2\land j_{ik}=j_i-1\Rightarrow$

$${}_{0}S^{\dot{i}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-2\cdot j_i-s-2\cdot\mathbb{k}-\mathbb{k}_1+4)!}{(3\cdot n_i-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-2\cdot\mathbb{k}-\mathbb{k}_1-j_{sa}^{s}+4)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\land \mathbb{k}=0\land I=\mathbb{l}\land \boldsymbol{s}=s+\mathbb{l}\land j_{ik}=j_i-1\lor$

$I=\mathbb{l}+\mathbb{k}\land s>1\land \mathbb{l}>0\land \mathbb{k}>0\land \boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\land$

$\mathbb{k}_z\!: z=2\land \mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\land j_{ik}=j_i-1\lor$

$I=\mathbb{l}+\mathbb{k}\land s>1\land \mathbb{l}>0\land \mathbb{k}_2>0\land \mathbb{k}_1=0\land \boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\land$

$\mathbb{k}_z\!: z=1\land \mathbb{k}=\mathbb{k}_2\land j_{ik}=j_i-1\Rightarrow$

$${}_{0}S^{\dot{i}ss}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3\cdot n_i-n_{ik}-n_s-j_s-2\cdot j_{ik}-s-2\cdot\mathbb{k}-\mathbb{k}_1+2)!}{(3\cdot n_i-n_{ik}-n_s-2\cdot j_{ik}-\boldsymbol{n}-2\cdot\mathbb{k}-\mathbb{k}_1-j_{sa}^{s}+2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\land \mathbb{k}=0\land I=\mathbb{l}\land \boldsymbol{s}=s+\mathbb{l}\land j_{ik}=j_i-1\lor$

$I=\mathbb{l}+\mathbb{k}\land s>1\land \mathbb{l}>0\land \mathbb{k}>0\land \boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\land$

$\mathbb{k}_z\!: z=2\land \mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\land j_{ik}=j_i-1\lor$

$I=\mathbb{l}+\mathbb{k}\land s>1\land \mathbb{l}>0\land \mathbb{k}_2>0\land \mathbb{k}_1=0\land \boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\land$

$\mathbb{k}_z\!: z=1\land \mathbb{k}=\mathbb{k}_2\land j_{ik}=j_i-1\Rightarrow$

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$$ {}_{0}S^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} $$

$$ \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} $$

$$ \frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - \boldsymbol{n} - 2 \cdot \mathbb{k}_1 - 2 \cdot \mathbb{k}_2 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!} $$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$ {}_{0}S^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} $$

$$ \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} $$

$$ \frac{(2 \cdot n_i + j_s - n_s - j_{ik} - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_i + 2 \cdot j_s - n_s - j_{ik} - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!} $$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$ {}_{0}S^{\dot{I}ss} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)} $$

$$ \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2} $$

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$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-2\cdot j_i-s-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2+1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\colon z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\colon z=1\wedge\mathbb{k}=\mathbb{k}_2\wedge j_{ik}=j_i-1\Rightarrow$

$${}_0S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\;)}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-2\cdot j_{ik}-s-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2-1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-2\cdot j_{ik}-\boldsymbol{n}-3\cdot\mathbb{k}_1-2\cdot\mathbb{k}_2-j_{sa}^{s}-1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\colon z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}_2>0\wedge\mathbb{k}_1=0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\colon z=1\wedge\mathbb{k}=\mathbb{k}_2\wedge j_{ik}=j_i-1\Rightarrow$

$${}_0S^{\dot{I}SS}=(D-s)!\cdot\sum_{j_s=1}\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})}\sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\;)}\sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3\cdot n_i+2\cdot j_s-n_{ik}-n_s-2\cdot j_i-s-2\cdot\mathbb{k}-\mathbb{k}_1+1)!}{(3\cdot n_i+3\cdot j_s-n_{ik}-n_s-2\cdot j_i-\boldsymbol{n}-2\cdot\mathbb{k}-\mathbb{k}_1)!\cdot(\boldsymbol{n}-s)!}$$

$D=\boldsymbol{n}<n\wedge\mathbb{k}=0\wedge I=\mathbb{l}\wedge\boldsymbol{s}=s+\mathbb{l}\wedge j_{ik}=j_i-1\vee$

$I=\mathbb{l}+\mathbb{k}\wedge s>1\wedge\mathbb{l}>0\wedge\mathbb{k}>0\wedge\boldsymbol{s}=s+\mathbb{l}+\mathbb{k}\wedge$

$\mathbb{k}_z\colon z=2\wedge\mathbb{k}=\mathbb{k}_1+\mathbb{k}_2\wedge j_{ik}=j_i-1\vee$

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$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z\!: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$_0S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(3 \cdot n_i + 2 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - s - 2 \cdot \mathbb{k} - \mathbb{k}_1 - 1)!}{(3 \cdot n_i + 3 \cdot j_s - n_{ik} - n_s - 2 \cdot j_{ik} - \boldsymbol{n} - 2 \cdot \mathbb{k} - \mathbb{k}_1 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z\!: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z\!: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$_0S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\ )} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} - n_s - j_s - s - 2 \cdot \mathbb{k}_2 - 1)!}{(2 \cdot n_{ik} + j_{ik} - n_s - \boldsymbol{n} - 2 \cdot \mathbb{k}_2 - j_{sa}^{s} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z\!: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z\!: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$$_0S^{\dot{I}SS} = (D-s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

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$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - j_s - s - 2 \cdot \mathbb{k} - 1)!}{(2 \cdot n_{ik} + j_{ik} + 2 \cdot \mathbb{k}_1 - n_s - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S^{İSS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} - n_s - s - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - 1)!}{(n_i + n_{ik} + j_s - n_s - \boldsymbol{n} - 2 \cdot \mathbb{k}_2 - \mathbb{k}_1 - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge \mathbb{k} = 0 \wedge I = \mathbb{l} \wedge \boldsymbol{s} = s + \mathbb{l} \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k} > 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \vee$

$I = \mathbb{l} + \mathbb{k} \wedge s > 1 \wedge \mathbb{l} > 0 \wedge \mathbb{k}_2 > 0 \wedge \mathbb{k}_1 = 0 \wedge \boldsymbol{s} = s + \mathbb{l} + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \wedge \mathbb{k} = \mathbb{k}_2 \wedge j_{ik} = j_i - 1 \Rightarrow$

$${}_0S^{İSS} = (D - s)! \cdot \sum_{j_s=1} \sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j_i=j_{ik}+1)}$$

$$\sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\;)} \sum_{n_s=n_{ik}+j_{ik}-j_i-\mathbb{k}_2}$$

$$\frac{(n_i + n_{ik} + \mathbb{k}_1 - n_s - s - 2 \cdot \mathbb{k} - 1)!}{(n_i + n_{ik} + j_s + \mathbb{k}_1 - n_s - \boldsymbol{n} - 2 \cdot \mathbb{k} - j_{sa}^s - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z: z > 1 \Rightarrow$

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$$
{}_0S^{İSS} = \prod_{z=3}^{s} \sum_{((j_i)_1=2)}^{(\;)} \sum_{(j_{ik})_{z-1}=z-1} \sum_{((j_i)_{z-1}=z \vee z=s \Rightarrow s)}^{(\;)}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n-\mathbb{l}} \sum_{\left((n_{ik})_1=n_i-(j_i)_1-\sum_{i=1}\mathbb{k}_i+1\right)}^{(\;)}
$$

$$
\sum_{(n_{ik})_{z-1}=(n_{ik})_{z-2}+(j_{ik})_{z-2}-(j_{ik})_{z-1}-\sum_{i=z-2}\mathbb{k}_i}
$$

$$
\sum_{\left((n_s)_{z-1}=(n_{ik})_{z-1}+(j_{ik})_{z-1}-(j_i)_{z-1}-\sum_{i=z-1}\mathbb{k}_i\right)}^{(\;)}
$$

$$
\frac{(D-s)!}{(D-s-(j_i)_1+2)!} \cdot \frac{\left(D-s-\left(j_{ik}-j_{sa}^{ik}\right)_{z-1}\right)!}{\left(D-s-(j_i)_{z-1}+(j_{ik})_{z-1}-\left(j_{ik}-j_{sa}^{ik}\right)_{z-1}+1\right)!} \cdot
$$

$$
\frac{(D-(j_i)_{z=s})!}{(D-\boldsymbol{n})!} \cdot
$$

$$
\frac{(n_i-(n_{ik})_1-1)!}{((j_i)_1-2)! \cdot (n_i-(n_{ik})_1-(j_i)_1+1)!} \cdot
$$

$$
\frac{((n_{ik})_{z-1}-(n_s)_{z-1}-1)!}{((j_i)_{z-1}-(j_{ik})_{z-1}-1)! \cdot ((n_{ik})_{z-1}+(j_{ik})_{z-1}-(n_s)_{z-1}-(j_i)_{z-1})!} \cdot
$$

$$
\frac{((n_s)_{z=s}-1)!}{((n_s)_{z=s}+(j_i)_{z=s}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-(j_i)_{z=s})!}
$$

## BAĞIMSIZ DURUMLA BAŞLAYAN DAĞILIMLARDA BAĞIMSIZ-BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİ

Simetri bağımsız durumla başlıyorsa ilk düzgün simetrik olasılıkların tümü bağımsız durumla başlayıp sonraki olaylarında bağımlı durumunun bulunduğu dağılımlarda bulunur. Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde $\{0,0,0,1,2,3,4,5\}$ veya $\{0,0,0,1,2,\mathbf{0},\mathbf{0},\mathbf{0},3,4,\mathbf{0},\mathbf{0},5\}$, bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin başladığı ilk bağımlı durum bulunan dağılımlardaki ilk düzgün simetrik olasılıklar da, bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik olasılık eşitliğiyle hesaplanabilir.

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$${}_{0}S_{0}^{\text{İ}SS} = {}_{0}S^{\text{İ}SS}$$

eşitliğiyle hesaplanabilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlarda, simetri bağımsız durumla başlayıp bağımlı durumla bittiğinde; bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin başladığı ilk bağımlı durumu bulunan dağılımlarda, düzgün simetrik durumların bulunduğu dağılımların sayısına ***bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik olasılık*** denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik olasılık ${}_{0}S_{0}^{\text{İ}SS}$ ile gösterilecektir.

$D = \boldsymbol{n} < n \wedge I = \mathbb{I} \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s + \mathbb{I} \Rightarrow$

$${}_{0}S_{0}^{\text{İ}SS} = \frac{(n - \boldsymbol{s} + 1)!}{(\imath - I)! \cdot (D + I - \boldsymbol{s} + 1)}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{I} \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s + \mathbb{I} \Rightarrow$

$${}_{0}S_{0}^{\text{İ}SS} = \frac{(n - \boldsymbol{s} + 1)!}{(\imath - I)! \cdot (n + I - \imath - \boldsymbol{s} + 1)}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{I} \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s + \mathbb{I} \Rightarrow$

$${}_{0}S_{0}^{\text{İ}SS} = \frac{(n - s - I + 1)!}{(\imath - I)! \cdot (D - s + 1)}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{I} \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s + \mathbb{I} \Rightarrow$

$${}_{0}S_{0}^{\text{İ}SS} = \frac{(n - s - I + 1)!}{(\imath - I)! \cdot (n - s - \imath + 1)}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{I} \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s + \mathbb{I} \Rightarrow$

$${}_{0}S_{0}^{\text{İ}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=D)}^{n-\mathbb{I}} \sum_{n_s=n_i-j_i+1} \frac{(n_i - s)!}{(n_i - D)! \cdot (D - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{I} \wedge \Bbbk = 0 \wedge \boldsymbol{s} = s + \mathbb{I} \Rightarrow$

$${}_{0}S_{0}^{\text{İ}SS} = (D - s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n})}^{n-\mathbb{I}} \sum_{n_s=n_i-j_i+1}$$

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$$\frac{(n_i - s)!}{(n_i - \boldsymbol{n})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbb{k} > 0 \Rightarrow$

$${}_0S_0^{İss} = \frac{(n - \boldsymbol{s} + 1)!}{(\imath - I)! \cdot (D + I - \boldsymbol{s} + 1)}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbb{k} > 0 \Rightarrow$

$${}_0S_0^{İss} = \frac{(n - \boldsymbol{s} + 1)!}{(\imath - I)! \cdot (n + I - \imath - \boldsymbol{s} + 1)}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbb{k} > 0 \Rightarrow$

$${}_0S_0^{İss} = \frac{(n - s - I + 1)!}{(\imath - I)! \cdot (D - s + 1)}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbb{k} > 0 \Rightarrow$

$${}_0S_0^{İss} = \frac{(n - s - I + 1)!}{(\imath - I)! \cdot (n - \imath - s + 1)}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z \geq 1 \Rightarrow$

$${}_0S_0^{İss} = (D - s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{n-\mathbb{l}} \sum_{n_s=n_i-j_i-\mathbb{k}+1} \frac{(n_i - s - \mathbb{k})!}{(n_i - D - \mathbb{k})! \cdot (D - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \mathbb{k}_z : z \geq 1 \Rightarrow$

$${}_0S_0^{İss} = (D - s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{n-\mathbb{l}} \sum_{n_s=n_i-j_i-\mathbb{k}+1} \frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z : z = 1 \Rightarrow$

$${}_0S_0^{İss} = (D - s)! \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!}$$

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$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z : z = 1 \Rightarrow$

$$_0S_0^{iss} = (D - s)! \cdot \sum_{j_s=1} \sum_{(j^{sa}=j_{sa})} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z : z = 1 \Rightarrow$

$$_0S_0^{iss} = (D - s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z : z = 1 \Rightarrow$

$$_0S_0^{iss} = (D - s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$_0S_0^{iss} = (D - s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_i - s - \mathbb{k})!}{(n_i - \boldsymbol{n} - \mathbb{k})! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z : z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$$_0S_0^{iss} = (D - s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \mathbb{k} \wedge \boldsymbol{s} = s + I \wedge \mathbb{k}_z : z = 1 \Rightarrow$

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$$ {}_{0}S_{0}^{İss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})! \cdot (\boldsymbol{n}-s)!} $$

$D=\boldsymbol{n}<n \wedge I=\mathbb{l}+\mathbb{k} \wedge \boldsymbol{s}=s+I \wedge \mathbb{k}_z: z=1 \Rightarrow$

$$ {}_{0}S_{0}^{İss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(n_i=\boldsymbol{n}+\mathbb{k})}^{(n-\mathbb{l})} \sum_{n_{sa}=n_i-j^{sa}-\mathbb{k}+1} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-s)!} $$

$D=\boldsymbol{n}<n \wedge I=\mathbb{l}+\mathbb{k} \wedge \boldsymbol{s}=s+I \wedge \mathbb{k}_z: z=1 \Rightarrow$

$$ {}_{0}S_{0}^{İss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n-\mathbb{l}} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i-s-\mathbb{k})!}{(n_i-\boldsymbol{n}-\mathbb{k})! \cdot (\boldsymbol{n}-s)!} $$

$D=\boldsymbol{n}<n \wedge I=\mathbb{l}+\mathbb{k} \wedge \boldsymbol{s}=s+I \wedge \mathbb{k}_z: z=1 \Rightarrow$

$$ {}_{0}S_{0}^{İss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n-\mathbb{l}} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{sa}+j^{sa}-s-1)!}{(n_{sa}+j^{sa}-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-s)!} $$

$D=\boldsymbol{n}<n \wedge I=\mathbb{l}+\mathbb{k} \wedge \boldsymbol{s}=s+I \wedge \mathbb{k}_z: z=1 \Rightarrow$

$$ {}_{0}S_{0}^{İss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n-\mathbb{l}} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_{ik}+j_{ik}-s-\mathbb{k}-1)!}{(n_{ik}+j_{ik}-\boldsymbol{n}-\mathbb{k}-1)! \cdot (\boldsymbol{n}-s)!} $$

$D=\boldsymbol{n}<n \wedge I=\mathbb{l}+\mathbb{k} \wedge \boldsymbol{s}=s+I \wedge \mathbb{k}_z: z=1 \wedge j_{ik}=j^{sa}-1 \Rightarrow$

$$ {}_{0}S_{0}^{İss} = (D-s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n-\mathbb{l}} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} $$

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$$\frac{(n_i - s - \Bbbk)!}{(n_i - \boldsymbol{n} - \Bbbk)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \Bbbk \wedge \boldsymbol{s} = s + I \wedge \Bbbk_z\colon z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$${}_{0}S_{0}^{\dot{I}SS} = (D - s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n-\mathbb{l}} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_{sa} + j^{sa} - s - 1)!}{(n_{sa} + j^{sa} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - s)!}$$

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} + \Bbbk \wedge \boldsymbol{s} = s + I \wedge \Bbbk_z\colon z = 1 \wedge j_{ik} = j^{sa} - 1 \Rightarrow$

$${}_{0}S_{0}^{\dot{I}SS} = (D - s)! \cdot \sum_{j^{sa}=j_{sa}} \sum_{(j_{ik}=j^{sa}-1)} \sum_{n_i=\boldsymbol{n}+\Bbbk}^{n-\mathbb{l}} \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk} \frac{(n_{ik} + j_{ik} - s - \Bbbk - 1)!}{(n_{ik} + j_{ik} - \boldsymbol{n} - \Bbbk - 1)! \cdot (\boldsymbol{n} - s)!}$$

## 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 $\{0, 0, 0, 1, 2, \boldsymbol{0}, \boldsymbol{0}, \boldsymbol{0}, 3, 4, \boldsymbol{0}, \boldsymbol{0}, \boldsymbol{0}, 5\}$, simetrinin ilk bağımlı durumuyla başlayan dağılımlarda düzgün simetrik olasılık bulunamaz. Fakat burada eşitliği tanımlanacaktır. Böylece simetrinin ilk bağımlı durumuyla başlayan dağılımlarındaki, düzgün simetrik olasılık,

$${}_{0}S_{D}^{\dot{I}SS} = 0$$

eşitliğiyle verilebilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlarda, simetri bağımsız durumla başlayıp bağımlı durumla bittiğinde; simetrinin ilk bağımlı durumuyla başlayan dağılımlarda, düzgün simetrik durumların bulunduğu dağılımların sayısına ***bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik olasılık*** denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik olasılık ${}_{0}S_{D}^{\dot{I}SS}$ ile gösterilecektir.

$D = \boldsymbol{n} < n \wedge I = \mathbb{l} \Rightarrow$

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$$ {}_{0}S_{D}^{\dot{I}SS} = 0 $$

***Örnek D44;*** *DNA kopyalanmasında Helikalas proteini, kopyalanma çatalında ikili sarmalı tersine döndürerek eski iki zincire ayırır. 100 genden oluşan özel bir DNA'nın bir geninin bir ipliği adenin (A), guanin (G) ve sitozinin (C) farklı dizilimi ve beş timinin (T) bu üç azotlu bazın olasılık dağılımlarına bağımsız olasılıkla dağılımından oluşsun. Bir iplikteki AGC simetrisi kopyalanma çatalı olsun. Bu çatalın timinle başlayıp sonraki ilk farklı dizilimli azotlu bazı adenin olan ve adeninle başlayan dağılımlardaki AGCT düzgün simetrik yapılarının bulunduğu ökaryotik hücrelerde* $3'$ *ucunun bulunduğunu kabul edelim*[1]*. DNA polimeraz enzimi* $3'$ *ucuna bir nükleotid takabiliyorsa, DNA'ya kaç nükleotid takılabilir?*

$DNA = 100\ gen, her\ gen\ için\ D = 3, n = 8, \imath = 5, I = 1\ ve\ \boldsymbol{s} = 4 \Rightarrow$

${}_{0}S^{\dot{I}SS} = ?\ ve\ \ {}_{0}S^{\dot{I}SS} \cdot 100 = ?$

*2. seviyeden soru ve 1. seviye problem*

$$ {}_{0}S^{\dot{I}SS} = \frac{(n - \boldsymbol{s} + 1)!}{(\imath - I)! \cdot (n - \imath - \boldsymbol{s} + I + 1)} $$

$$ {}_{0}S^{\dot{I}SS} = \frac{(8 - 4 + 1)!}{(5 - 1)! \cdot (8 - 5 - 4 + 1 + 1)} $$

$$ {}_{0}S^{\dot{I}SS} = \frac{5!}{4! \cdot 1} $$

$$ {}_{0}S^{\dot{I}SS} = 5 $$

$$ {}_{0}S^{\dot{I}SS} \cdot 100 = 5 \cdot 100 = 500 $$

*Atı yüz kopyalanma hatasının oluşacağı kopyalanma çatalından beş yüzüne nükleotid takılabilir.*

[1] Bu sorunun biyoloji kısmı için Campel, N. A. ve Reece J. B. "Biyoloji", ss: 296-300 bakılabilir

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# İLK DÜZGÜN SİMETRİK BULUNMAMA OLASILIĞI

Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlardan, simetrinin başladığı bağımlı durumla başlayan ve/veya bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin başladığı bağımlı durum bulunan dağılımlardaki düzgün simetrik bulunmama olasılıkları; aynı dağılımların sayısından, aynı dağılımlardaki düzgün simetrik olasılıkların farkına eşit olur.

## BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİK BULUNMAMA OLASILIĞI

Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde $\{1, 2, 3, 4, 5\}$ veya $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$, simetrinin başladığı bağımlı durumla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin başladığı bağımlı durum bulunan dağılımlardaki düzgün simetrik bulunmama olasılıkları; bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımın başladığı duruma göre tek simetrik olasılıktan, aynı şartlı ve aynı dağılımlardaki ilk düzgün simetrik olasılığın farkına eşit olur. Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde, simetrinin başladığı durumla başlayan ve son olayı bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin ilk durumu olan dağılımlardaki düzgün simetrik bulunmama olasılıkları için;

$$S^{İSS,B} = {}_{0,T}^{\ 1}S_1^1 - S^{İSS}$$

eşitliği elde edilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu ilk düzgün simetrik bulunmama olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlarda, simetri bağımlı 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 bulunmadığı dağılımların sayısına ***bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu ilk düzgün simetrik bulunmama olasılığı*** denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu ilk düzgün simetrik bulunmama olasılığı $S^{İSS,B}$ ile gösterilecektir. Yukarıdaki eşitliğin sağındaki terimlerin, simetri bağımlı durumlardan oluştuğundaki $\{1, 2, 3, 4, 5\}$ eşitleri yazıldığında,

$$S^{İSS,B} = \frac{n!}{(n-D)!} \cdot \frac{1}{D} - \frac{(n-s+1)!}{\imath! \cdot (D-s+1)}$$

veya $D = n - \imath$ olacağından,

$$S^{İSS,B} = \frac{n!}{\imath!} \cdot \frac{1}{(n-\imath)} - \frac{(n-s+1)!}{\imath! \cdot (n-\imath-s+1)}$$

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veya simetri bağımlı durumla başlayıp, bağımsız durumları bulunup bağımlı durumla bittiğinde $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$,

$$S^{\dot{I}SS,B} = \frac{n!}{(n-D)!} \cdot \frac{1}{D} - \frac{(n-\boldsymbol{s}+1)!}{(\imath - I)! \cdot (D + I - \boldsymbol{s} + 1)}$$

veya

$$S^{\dot{I}SS,B} = \frac{n!}{\imath!} \cdot \frac{1}{(n-\imath)} - \frac{(n-\boldsymbol{s}+1)!}{(\imath - I)! \cdot (n + I - \imath - \boldsymbol{s} + 1)}$$

veya

$$S^{\dot{I}SS,B} = \frac{n!}{(n-D)!} \cdot \frac{1}{D} - \frac{(n-s-I+1)!}{(\imath - I)! \cdot (D - s + 1)}$$

veya

$$S^{\dot{I}SS,B} = \frac{n!}{\imath!} \cdot \frac{1}{(n-\imath)} - \frac{(n-s-I+1)!}{(\imath - I)! \cdot (n - s - \imath + 1)}$$

eşitlikleriyle bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu ilk düzgün simetrik bulunama olasılıkları hesaplanabilir.

## BAĞIMSIZ DURUMLA BAŞLAYAN DAĞILIMLARDA BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİK BULUNMAMA OLASILIĞI

Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde $\{1, 2, 3, 4, 5\}$ veya $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$, bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin başladığı bağımlı durum bulunan dağılımlardaki düzgün simetrik bulunmama olasılıkları; bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı durumun bağımsız tek simetrik olasılıktan, aynı şartlı ve aynı dağılımlardaki ilk düzgün simetrik olasılığın farkına eşit olur. Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde, son olayı bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin ilk durumu olan dağılımlardaki düzgün simetrik bulunmama olasılıkları için;

$$S_0^{\dot{I}SS,B} = {}_{0,1t}^{\;1}S_1^1 - S_0^{\dot{I}SS}$$

eşitliği elde edilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli olasılık dağılımlarında, simetri bağımlı durumla başlayıp bağımlı durumla bittiğinde; bağımsız durumla başlayıp sonra simetrinin ilk bağımlı durumu bulunan dağılımlarda, düzgün simetrik durumların bulunmadığı dağılımların sayısına ***bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik***

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***bulunmama olasılığı*** denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı $S_0^{\text{İ}SS,B}$ ile gösterilecektir. Yukarıdaki eşitliğin sağındaki terimlerin, simetri bağımlı durumlardan oluştuğundaki $\{1, 2, 3, 4, 5\}$ eşitleri yazıldığında,

$$S_0^{\text{İ}SS,B} = \frac{(n-1)!}{(n-D-1)! \cdot D} - \frac{(n-s)!}{(\iota-1)! \cdot (D-s+1)}$$

veya $D = n - \iota$ yazıldığında,

$$S_0^{\text{İ}SS,B} = \frac{(n-1)!}{(\iota-1)! \cdot (n-\iota)} - \frac{(n-s)!}{(\iota-1)! \cdot (n-\iota-s+1)}$$

veya simetri bağımlı durumla başlayıp, bağımsız durumları bulunup bağımlı durumla bittiğinde $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$,

$$S_0^{\text{İ}SS,B} = \frac{(n-1)!}{(n-D-1)! \cdot D} - \frac{(n-\boldsymbol{s})!}{(\iota-I-1)! \cdot (D+I-\boldsymbol{s}+1)}$$

veya

$$S_0^{\text{İ}SS,B} = \frac{(n-1)!}{(n-D-1)! \cdot D} - \frac{(n-s-I)!}{(\iota-I-1)! \cdot (D-s+1)}$$

veya

$$S_0^{\text{İ}SS,B} = \frac{(n-1)!}{(\iota-1)! \cdot (n-\iota)} - \frac{(n-\boldsymbol{s})!}{(\iota-I-1)! \cdot (n+I-\iota-\boldsymbol{s}+1)}$$

veya

$$S_0^{\text{İ}SS,B} = \frac{(n-1)!}{(\iota-1)! \cdot (n-\iota)} - \frac{(n-s-I)!}{(\iota-I-1)! \cdot (n-\iota-s+1)}$$

eşitlikleriyle bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılıkları hesaplanabilir.

## BAĞIMLI DURUMLA BAŞLAYAN DAĞILIMLARDA BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİK BULUNMAMA OLASILIĞI

Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde $\{1, 2, 3, 4, 5\}$ veya $\{1, 2, 0, 0, 0, 3, 4, 0, 0, 5\}$, simetrinin başladığı bağımlı durumla başlayan dağılımlardaki düzgün simetrik bulunmama olasılıkları; bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımın başladığı duruma göre tek simetrik olasılıktan, bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı durumun bağımsız tek simetrik olasılığın farkından, aynı şartlı ve

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aynı dağılımlardaki ilk düzgün simetrik olasılığın çıkarılmasına eşit olur. Simetri bağımlı durumla başlayıp, bağımlı durumla bittiğinde, simetrinin başladığı durumla başlayan dağılımlardaki düzgün simetrik bulunmama olasılıkları için;

$$S_D^{\text{İ}SS,B} = \left({}_{0,T}^{\;1}S_1^1 - {}_{0,1t}^{\;\;1}S_1^1\right) - S_D^{\text{İ}SS}$$

eşitliği elde edilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli olasılık dağılımlarında, simetri bağımlı durumla başlayıp bağımlı durumla bittiğinde; simetrinin ilk durumuyla başlayan dağılımlarda, düzgün simetrik durumların bulunmadığı dağılımların sayısına ***bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı*** denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı $S_D^{\text{İ}SS,B}$ ile gösterilecektir. Yukarıdaki eşitliğin sağındaki terimlerin, simetri bağımlı durumlardan oluştuğundaki $\{1,2,3,4,5\}$ eşitleri yazıldığında,

$$S_D^{\text{İ}SS,B} = \left(\frac{n!}{(n-D)!}\cdot\frac{1}{D} - \frac{(n-1)!}{(n-D-1)!\cdot D}\right) - \frac{(n-s)!}{\iota!}$$

$$S_D^{\text{İ}SS,B} = \left(\frac{(n-1)!}{(n-D)!}\cdot\frac{1}{D}\cdot\left(n-(n-D)\right)\right) - \frac{(n-s)!}{\iota!}$$

$$S_D^{\text{İ}SS,B} = \frac{(n-1)!}{(n-D)!} - \frac{(n-s)!}{\iota!}$$

veya $n - D = \iota$ olacağında,

$$S_D^{\text{İ}SS,B} = \frac{(n-1)!}{\iota!} - \frac{(n-s)!}{\iota!}$$

veya simetri bağımlı durumla başlayıp, bağımsız durumları bulunup bağımlı durumla bittiğinde $\{1,2,0,0,0,3,4,0,0,5\}$,

$$S_D^{\text{İ}SS,B} = \frac{(n-1)!}{(n-D)!} - \frac{(n-\boldsymbol{s})!}{(\iota-I)!}$$

veya

$$S_D^{\text{İ}SS,B} = \frac{(n-1)!}{(n-D)!} - \frac{(n-s-I)!}{(\iota-I)!}$$

veya

$$S_D^{\text{İ}SS,B} = \frac{(n-1)!}{\iota!} - \frac{(n-\boldsymbol{s})!}{(\iota-I)!}$$

veya

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$$D = \boldsymbol{n} < n$$

$$S_D^{\dot{I}SS,B} = \frac{(n-1)!}{\iota!} - \frac{(n-s-I)!}{(\iota-I)!}$$

eşitlikleriyle bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılıkları hesaplanabilir.

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# BAĞIMSIZ-BAĞIMLI DURUMLU İLK DÜZGÜN SİMETRİK BULUNMAMA OLASILIĞI

Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde $\{0, 0, 0, 1, 2, 3, 4, 5\}$ veya $\{0, 0, 0, 1, 2, \mathbf{0}, \mathbf{0}, \mathbf{0}, 3, 4, \mathbf{0}, \mathbf{0}, 5\}$, simetrinin başladığı bağımlı durumla başlayan ve bağımsız durumla başlayıp sonraki ilk bağımlı durumu, simetrinin ilk bağımlı durumu bulunan dağılımlardaki düzgün simetrik bulunmama olasılıkları; bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımın başladığı duruma göre tek simetrik olasılıktan, aynı şartlı ve aynı dağılımlardaki ilk düzgün simetrik olasılığın farkına eşit olur. Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde, simetrinin başladığı bağımlı durumla başlayan ve son olayı bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin ilk bağımlı durumu olan dağılımlardaki düzgün simetrik bulunmama olasılıkları için;

$${}_{0}S^{İSS,B} = {}_{0,T}^{\;1}S_1^1 - {}_{0}S^{İSS}$$

eşitliği elde edilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik bulunmama olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı 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 bulunmadığı dağılımların sayısına ***bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik bulunmama olasılığı*** denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik bulunmama olasılığı ${}_{0}S^{İSS,B}$ ile gösterilecektir. Yukarıdaki eşitliğin sağındaki terimlerin, simetri bağımsız durumla başlayıp, bağımlı bağımlı durumları arasında bağımsız durum bulunmadan, bağımlı durumla bittiğindeki $\{0, 0, 0, 1, 2, 3, 4, 5\}$, eşitleri yazıldığında,

$${}_{0}S^{İSS,B} = \frac{n!}{(n-D)!} \cdot \frac{1}{D} - \frac{(n-\boldsymbol{s}+1)!}{(\imath - I)! \cdot (D + I - \boldsymbol{s} + 1)}$$

veya $D = n - \imath$ olacağından,

$${}_{0}S^{İSS,B} = \frac{n!}{\imath!} \cdot \frac{1}{(n-\imath)} - \frac{(n-\boldsymbol{s}+1)!}{(\imath - I)! \cdot (n + I - \imath - \boldsymbol{s} + 1)}$$

veya $\boldsymbol{s} = s + I$ olacağından,

$${}_{0}S^{İSS,B} = \frac{n!}{(n-D)!} \cdot \frac{1}{D} - \frac{(n-s-I+1)!}{(\imath - I)! \cdot (D - s + 1)}$$

veya $D = n - \imath$ olacağından,

$${}_{0}S^{İSS,B} = \frac{n!}{\imath!} \cdot \frac{1}{(n-\imath)} - \frac{(n-s-I+1)!}{(\imath - I)! \cdot (n - s - \imath + 1)}$$

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veya simetri bağımsız durumla başlayıp, bağımlı durumlar arasında bağımsız durumlar bulunup, bağımlı durumla bittiğinde $\{0, 0, 0, 1, 2, \boldsymbol{0}, \boldsymbol{0}, \boldsymbol{0}, 3, 4, \boldsymbol{0}, \boldsymbol{0}, 5\}$,

$$ {}_0S^{\text{İ}SS,B} = \frac{n!}{(n-D)!} \cdot \frac{1}{D} - \frac{(n-\boldsymbol{s}+1)!}{(\iota - I)! \cdot (D + I - \boldsymbol{s} + 1)} $$

veya $D = n - \iota$ olacağından,

$$ {}_0S^{\text{İ}SS,B} = \frac{n!}{\iota!} \cdot \frac{1}{(n-\iota)} - \frac{(n-\boldsymbol{s}+1)!}{(\iota - I)! \cdot (n + I - \iota - \boldsymbol{s} + 1)} $$

veya $\boldsymbol{s} = s + I$ olacağından,

$$ {}_0S^{\text{İ}SS,B} = \frac{n!}{(n-D)!} \cdot \frac{1}{D} - \frac{(n-s-I+1)!}{(\iota - I)! \cdot (D - s + 1)} $$

veya $D = n - \iota$ olacağından,

$$ {}_0S^{\text{İ}SS,B} = \frac{n!}{\iota!} \cdot \frac{1}{(n-\iota)} - \frac{(n-s-I+1)!}{(\iota - I)! \cdot (n - s - \iota + 1)} $$

eşitlikleriyle bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu ilk düzgün simetrik bulunmama olasılıkları hesaplanabilir.

## 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 $\{0, 0, 0, 1, 2, \boldsymbol{0}, \boldsymbol{0}, \boldsymbol{0}, 3, 4, \boldsymbol{0}, \boldsymbol{0}, 5\}$, bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin başladığı bağımlı durum bulunan dağılımlardaki düzgün simetrik bulunmama olasılıkları; bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı durumun bağımsız tek simetrik olasılıktan, aynı şartlı ve aynı dağılımlardaki ilk düzgün simetrik olasılığın farkına eşit olur. Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde, son olayı bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin ilk bağımlı durumu olan dağılımlardaki düzgün simetrik bulunmama olasılıkları için,

$$ {}_0S_0^{\text{İ}SS,B} = {}_{0,1t}^{\;\;1}S_1^1 - {}_0S_0^{\text{İ}SS} $$

eşitliği elde edilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlarda, simetri bağımsız durumla başlayıp bağımlı durumla bittiğinde; bağımsız durumla başlayıp sonraki ilk bağımlı durumu simetrinin başladığı ilk bağımlı durumu bulunan dağılımlarda, düzgün simetrik durumların bulunmadığı

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dağılımların sayısına ***bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılığı*** denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik bulunama olasılığı ${}_0S_0^{\dot{I}SS,B}$ ile gösterilecektir. Yukarıdaki eşitliğin sağındaki terimlerin, simetri bağımsız durumla başlayıp, bağımlı bağımlı durumları arasında bağımsız durum bulunmadan, bağımlı durumla bittiğindeki $\{0, 0, 0, 1, 2, 3, 4, 5\}$, eşitleri yazıldığında,

$${}_0S_0^{\dot{I}SS,B} = \frac{(n-1)!}{(n-D-1)! \cdot D} - \frac{(n-\boldsymbol{s}+1)!}{(\iota-I)! \cdot (D+I-\boldsymbol{s}+1)}$$

veya $D = n - \iota$ yazıldığında,

$${}_0S_0^{\dot{I}SS,B} = \frac{(n-1)!}{(\iota-1)! \cdot (n-\iota)} - \frac{(n-\boldsymbol{s}+1)!}{(\iota-I)! \cdot (n+I-\iota-\boldsymbol{s}+1)}$$

veya $\boldsymbol{s} = s + I$ yazıldığında,

$${}_0S_0^{\dot{I}SS,B} = \frac{(n-1)!}{(n-D-1)! \cdot D} - \frac{(n-s-I+1)!}{(\iota-I)! \cdot (D-s+1)}$$

veya

$${}_0S_0^{\dot{I}SS,B} = \frac{(n-1)!}{(\iota-1)! \cdot (n-\iota)} - \frac{(n-s-I+1)!}{(\iota-I)! \cdot (n-s-\iota+1)}$$

veya simetri bağımsız durumla başlayıp, bağımlı durumları arasında bağımsız durumlar bulunup, bağımlı durumla bittiğinde $\{0, 0, 0, 1, 2, \mathbf{0}, \mathbf{0}, \mathbf{0}, 3, 4, \mathbf{0}, \mathbf{0}, 5\}$,

$${}_0S_0^{\dot{I}SS,B} = \frac{(n-1)!}{(n-D-1)! \cdot D} - \frac{(n-\boldsymbol{s}+1)!}{(\iota-I)! \cdot (D+I-\boldsymbol{s}+1)}$$

veya

$${}_0S_0^{\dot{I}SS,B} = \frac{(n-1)!}{(n-D-1)! \cdot D} - \frac{(n-s-I+1)!}{(\iota-I)! \cdot (D-s+1)}$$

veya

$${}_0S_0^{\dot{I}SS,B} = \frac{(n-1)!}{(\iota-1)! \cdot (n-\iota)} - \frac{(n-\boldsymbol{s}+1)!}{(\iota-I)! \cdot (n+I-\iota-\boldsymbol{s}+1)}$$

veya

$${}_0S_0^{\dot{I}SS,B} = \frac{(n-1)!}{(\iota-1)! \cdot (n-\iota)} - \frac{(n-s-I+1)!}{(\iota-I)! \cdot (n-\iota-s+1)}$$

eşitlikleriyle bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımsız ilk düzgün simetrik bulunmama olasılıkları hesaplanabilir.

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# 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 $\{0,0,0,1,2,\mathbf{0},\mathbf{0},\mathbf{0},3,4,\mathbf{0},\mathbf{0},5\}$, simetrinin başladığı bağımlı durumla başlayan dağılımlardaki düzgün simetrik bulunmama olasılıkları; bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımın başladığı duruma göre tek simetrik olasılıktan, bağımlı ve bir bağımsız olasılıklı farklı dizilimli bir bağımlı durumun bağımsız tek simetrik olasılığın farkından, aynı şartlı ve aynı dağılımlardaki ilk düzgün simetrik olasılığın çıkarılmasına eşit olur. Simetri bağımsız durumla başlayıp, bağımlı durumla bittiğinde, simetrinin başladığı bağımlı durumla başlayan dağılımlardaki düzgün simetrik bulunmama olasılıkları için,

$${}_{0}S_D^{\dot{I}SS,B} = \left({}_{0,T}^{\;1}S_1^1 - {}_{0,1t}^{\;1}S_1^1\right) - {}_{0}S_D^{\dot{I}SS}$$

eşitliği elde edilir. Bu eşitliğe bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılık eşitliği denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli dağılımlarda, simetri bağımsız durumla başlayıp bağımlı durumla bittiğinde; simetrinin ilk bağımlı durumuyla başlayan dağılımlarda, düzgün simetrik durumların bulunmadığı dağılımların sayısına ***bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı*** denir. Bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılığı ${}_{0}S_D^{\dot{I}SS,B}$ ile gösterilecektir. Yukarıdaki eşitliğin sağındaki terimlerin, simetri bağımsız durumla başlayıp, bağımlı bağımlı durumları arasında bağımsız durum bulunmadan, bağımlı durumla bittiğindeki $\{0,0,0,1,2,3,4,5\}$, eşitleri yazıldığında,

$${}_{0}S_D^{\dot{I}SS,B} = \left(\frac{n!}{(n-D)!}\cdot\frac{1}{D} - \frac{(n-1)!}{(n-D-1)!\cdot D}\right) - 0$$

$${}_{0}S_D^{\dot{I}SS,B} = \left(\frac{(n-1)!}{(n-D)!}\cdot\frac{1}{D}\cdot(n-(n-D))\right) - 0$$

$${}_{0}S_D^{\dot{I}SS,B} = \frac{(n-1)!}{(n-D)!} - 0$$

$${}_{0}S_D^{\dot{I}SS,B} = \frac{(n-1)!}{(n-D)!}$$

veya $n - D = \imath$ olacağında,

$${}_{0}S_D^{\dot{I}SS,B} = \frac{(n-1)!}{\imath!}$$

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veya simetri bağımsız durumla başlayıp, bağımlı durumları arasında bağımsız durumlar bulunup, bağımlı durumla bittiğinde $\{0, 0, 0, 1, 2, \mathbf{0}, \mathbf{0}, \mathbf{0}, 3, 4, \mathbf{0}, \mathbf{0}, 5\}$,

$$ {}_{0}S_{D}^{\dot{I}SS,B} = \frac{(n-1)!}{(n-D)!} - 0 $$

$$ {}_{0}S_{D}^{\dot{I}SS,B} = \frac{(n-1)!}{(n-D)!} $$

veya

$$ {}_{0}S_{D}^{\dot{I}SS,B} = \frac{(n-1)!}{\imath!} - 0 $$

$$ {}_{0}S_{D}^{\dot{I}SS,B} = \frac{(n-1)!}{\imath!} $$

eşitlikleriyle bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımsız-bağımlı durumlu bağımlı ilk düzgün simetrik bulunmama olasılıkları hesaplanabilir.

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# BÖLÜM D İLK DÜZGÜN SİMETRİK OLASILIK

## ÖZET

**Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dilimli Dağılımlardan Simetrinin İlk Bağımlı Durumuyla Başlayan ve Bağımsız Durumla Başlayıp Sonraki İlk Bağımlı Durumunda Simetrinin İlk Bağımlı Durumu Bulunan Dağılımlardaki İlk Düzgün Simetrik Olasılıklar**

$$S^{\dot{I}SS} = \frac{(n-s-I+1)!}{(\imath-I)!\cdot(\boldsymbol{n}-s\ +1)}$$

$$_{0}S^{\dot{I}SS} = \frac{(n-s-I+1)!}{(\imath-I)!\cdot(\boldsymbol{n}-s\ +1)}$$

$$^{0}S^{\dot{I}SS} = \frac{(n-s-I+1)!}{(\imath-I)!\cdot(\boldsymbol{n}-s\ +1)}$$

$$S^{\dot{I}SS} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{n}\sum_{n_s=n_i-s-\Bbbk+1}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}$$

$$_{0}S^{\dot{I}SS} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{n-\mathbb{l}}\sum_{n_s=n_i-j_i-\Bbbk+1}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}$$

$$^{0}S^{\dot{I}SS} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=\boldsymbol{n}+\Bbbk+\boldsymbol{I})}^{n}\sum_{n_s=n_i-j_i-\Bbbk+1}$$

$$\frac{(n_i-s-\Bbbk-\boldsymbol{I})!}{(n_i-\boldsymbol{n}-\Bbbk-\boldsymbol{I})!\cdot(\boldsymbol{n}-s)!}$$

$$_{Ba\breve{g}\imath ms\imath z-Ba\breve{g}\imath ms\imath z}{}^{0}S^{\dot{I}SS} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=\boldsymbol{n}+\Bbbk+\boldsymbol{I})}^{n-\mathbb{l}}\sum_{n_s=n_i-j_i-\Bbbk+1}$$

$$\frac{(n_i-s-\Bbbk-\boldsymbol{I})!}{(n_i-\boldsymbol{n}-\Bbbk-\boldsymbol{I})!\cdot(\boldsymbol{n}-s)!}$$

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**Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dilimli Dağılımlardan Bağımsız Durumla Başlayıp Sonraki İlk Bağımlı Durumunda Simetrinin İlk Bağımlı Durumu Bulunan Dağılımlardaki İlk Düzgün Simetrik Olasılıklar**

$$S_0^{İSS} = \frac{(n-s-I)!}{(\iota-I-1)!\cdot(\boldsymbol{n}-s+1)}$$

$$_0S_0^{İSS} = \frac{(n-s-I+1)!}{(\iota-I)!\cdot(\boldsymbol{n}-s\ +1)}$$

$$^0S_0^{İSS} = \frac{(n-s-I)!}{(\iota-I-1)!\cdot(\boldsymbol{n}-s+1)}$$

$$_{Bağımsız-Bağımsız}{}^0S_0^{İSS} = \frac{(n-s-I+1)!}{(\iota-I)!\cdot(\boldsymbol{n}-s\ +1)}$$

$$S_0^{İSS} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{n-1}\sum_{n_s=n_i-s-\Bbbk+1}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}$$

$$_0S_0^{İSS} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=\boldsymbol{n}+\Bbbk)}^{n-\mathbb{I}}\sum_{n_s=n_i-j_i-\Bbbk+1}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)!\cdot(\boldsymbol{n}-s)!}$$

$$^0S_0^{İSS} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=\boldsymbol{n}+\Bbbk+\boldsymbol{I})}^{n-1}\sum_{n_s=n_i-j_i-\Bbbk+1}$$

$$\frac{(n_i-s-\Bbbk-\boldsymbol{I})!}{(n_i-\boldsymbol{n}-\Bbbk-\boldsymbol{I})!\cdot(\boldsymbol{n}-s)!}$$

$$_{Bağımsız-Bağımsız}{}^0S_0^{İSS} = (D-s)!\cdot\sum_{j_s=1}\sum_{(j_i=s)}\sum_{(n_i=\boldsymbol{n}+\Bbbk+\boldsymbol{I})}^{n-\mathbb{I}}\sum_{n_s=n_i-j_i-\Bbbk+1}$$

$$\frac{(n_i-s-\Bbbk-\boldsymbol{I})!}{(n_i-\boldsymbol{n}-\Bbbk-\boldsymbol{I})!\cdot(\boldsymbol{n}-s)!}$$

GÜL DÜNYA

**Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dilimli Dağılımlardan Simetrinin İlk Bağımlı Durumuyla Başlayan Dağılımlardaki İlk Düzgün Simetrik Olasılıklar**

$$S_D^{İSS} = \frac{(n-s-I)!}{(\imath-I)!}$$

$${}_0S_D^{İSS} = 0$$

$${}^0S_D^{İSS} = \frac{(n-s-I)!}{(\imath-I)!}$$

$${}_{Bağımsız-Bağımsız}{}^0S_D^{İSS} = 0$$

$$S_D^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n_i-s-\Bbbk+1}$$

$$\frac{(n_i-s-\Bbbk)!}{(n_i-\boldsymbol{n}-\Bbbk)! \cdot (\boldsymbol{n}-s)!}$$

$${}^0S_D^{İSS} = (D-s)! \cdot \sum_{j_s=1} \sum_{(j_i=s)} \sum_{(n_i=n)} \sum_{n_s=n-j_i-\Bbbk+1}$$

$$\frac{(n-s-\Bbbk-\boldsymbol{I})!}{(n-\boldsymbol{n}-\Bbbk-\boldsymbol{I})! \cdot (\boldsymbol{n}-s)!}$$

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# DİZİN

## B





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VDOİHİ'de Olasılık ve İhtimal konularının tanım ve eşitlikleri verilmektedir. Ayrıca VDOİHİ'de olasılık ve ihtimalin uygulama alanlarına da yer verilmektedir. VDOİHİ konu anlatım ciltleri ve aynı cilt numaraları ile soru, problem ve ispat çözümlerinden oluşmaktadır. Bu cilt, bağımlı ve bir bağımsız olasılıklı farklı dizilimli bağımlı-bağımlı ve bağımsız-bağımlı durumlu simetrinin ilk düzgün simetrik olasılığı ve ilk düzgün simetrik bulunmama olasılıklarının tanım ve eşitliklerinden oluşmaktadır.

VDOİHİ Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dizilimli Bağımlı-Bağımlı ve Bağımsız-Bağımlı Durumlu Simetrinin İlk Düzgün Simetrik Olasılık kitabında, bağımlı durum sayısı, bağımlı olay sayısına eşit farklı dizilimli dağılımlar ve bir bağımsız olasılıklı dağılımla elde edilebilecek yeni olasılık dağılımlarından, simetrinin ilk bağımlı durumuyla başlayan ve bağımsız durumla başlayıp ilk bağımlı durumu simetrinin ilk bağımlı durumu olan dağılımlarda, bağımlı-bağımlı ve bağımsız-bağımlı durumlardan oluşan simetrinin; 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.

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