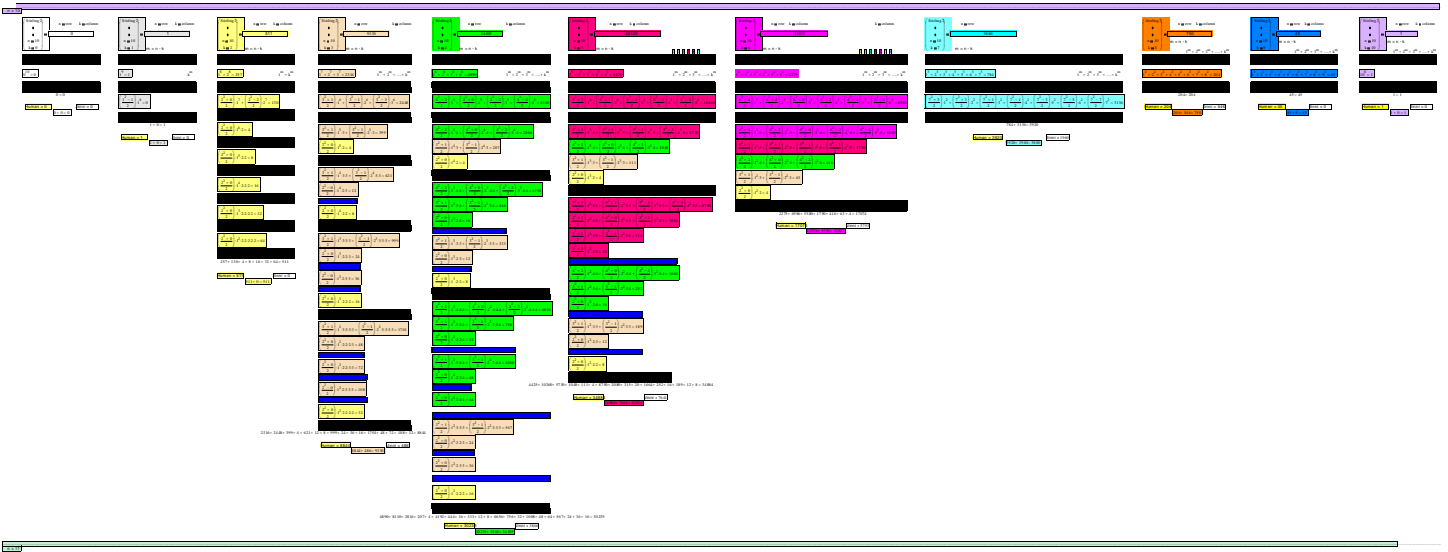


Stirling numbers of the 2<sup>th</sup> kind triangular set of equation packages array based on Human and jinni algorithm Serajian Asl





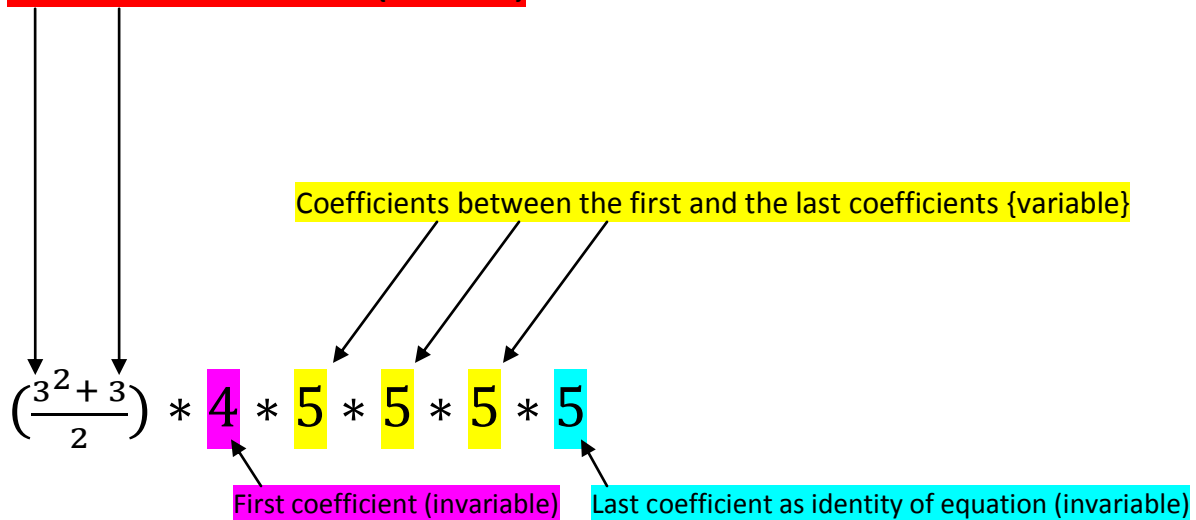
Below is a sample of sons set for showing the variable and invariable values in creating the sons set in a human package

$$\left(\frac{3^2+1}{2}\right) * 1^4 * 3 * 3 + \left(\frac{3^2-1}{2}\right) * 2^4 * 3 * 3 = 621$$

$$\left(\frac{2^2-0}{2}\right) * 1^4 * 2 * 3 = 12$$

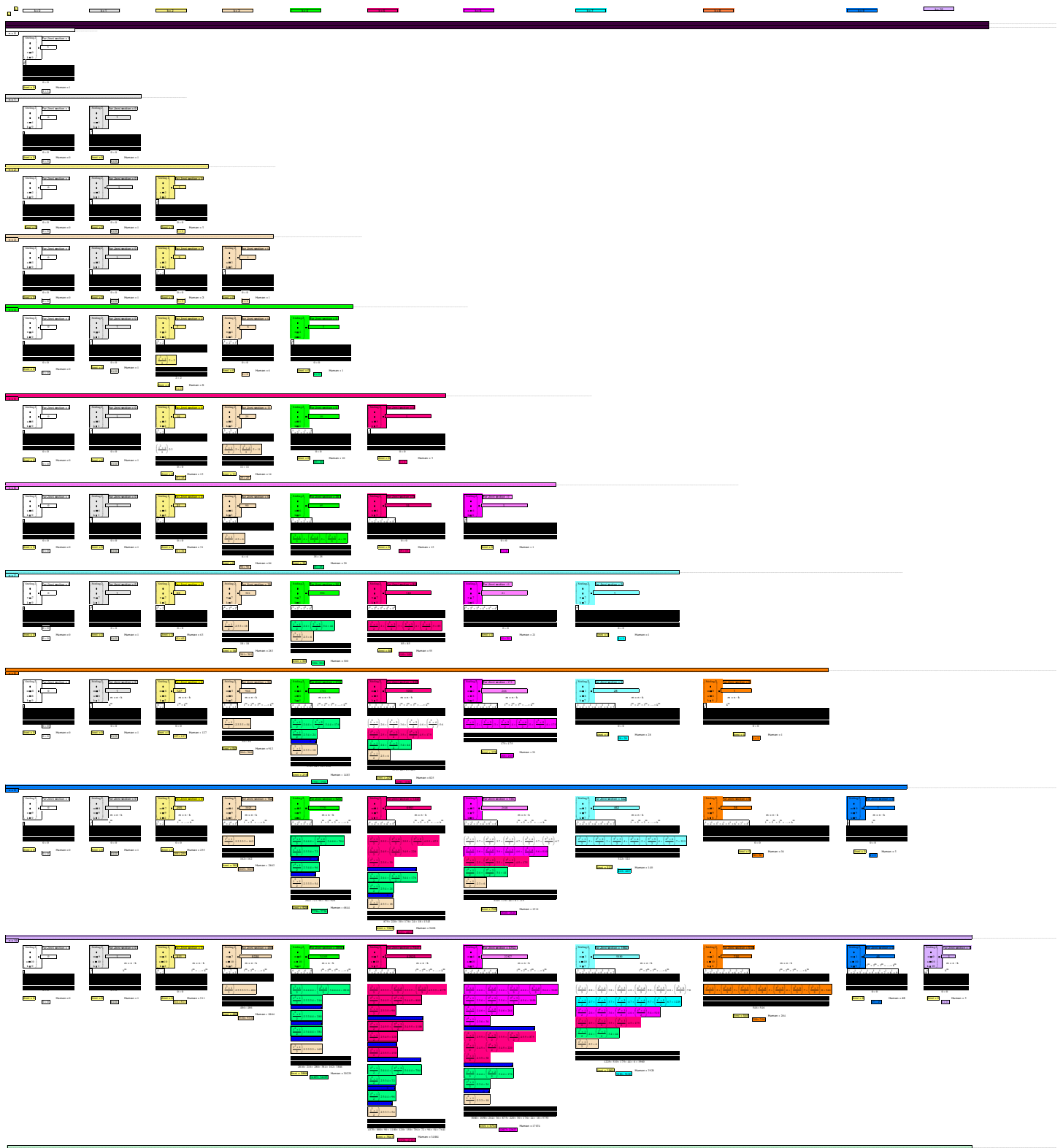
And below is a sample of a term in jinni's equation

Base numbers in numerator {invariable}



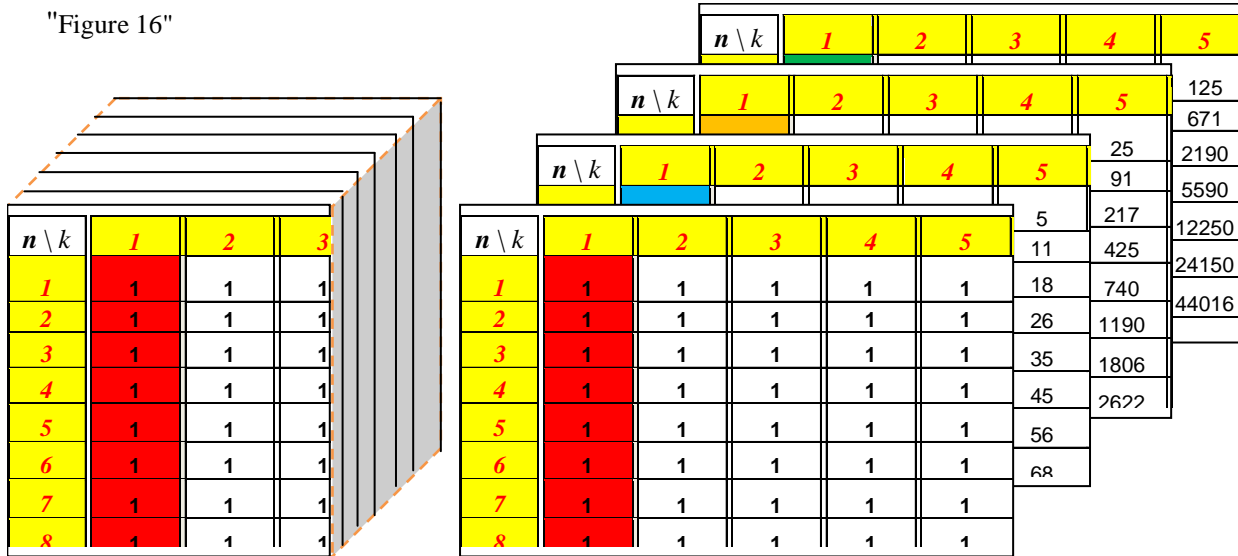
# Stirling numbers of the second kind triangular set of equation packages array

Based on family tree of the **Jinni** and Human algorithm Serajian Asl



Set of the above made squared arrays makes a three – dimensional "3D numerical array"  
 In the name **numerical cube array**

"Figure 16"



**Numerical cube** set of the squared arrays make three dimensional **numerical cube array**

By adding {3} to each one of base numbers, the 4<sup>th</sup> term of sequence will be obtain {42525 ,156660 ,447195 ,1071630 , .. }

String2 n = row k = column  $A_c$  = number, of, square, array, in, Cube, array  
 Cube Array  $A_c = 8$  42525  
 $n = 5$   
 $k = 1$   $m = A_c - 3$

$5^2 = 2^2 + 3^2 + 4^2 = 44$

$5^2 + 4^2 + 3^2 + 2^2 + 1^2 = (1+3+4+5)2^2 + (1+2+4+5)2^2 + (1+2+3+5)2^2 + (1+2+3+4)2^2 = 10260$

$5^2 + 4^2 + 3^2 + 2^2 + 1^2 + 0^2 = (1+3+4+5)2^2 + (1+2+4+5)2^2 + (1+2+3+5)2^2 + 0^2 = 5790$

$5^2 + 3^2 + 2^2 + 1^2 + 0^2 = (1+3+4)2^2 + (1+2+4)2^2 + 0^2 = 1086$

$5^2 + 3^2 + 1^2 + 0^2 = (1+3+4)2^2 + 0^2 = 111$

$5^2 + 2^2 = 4$

$5^2 + 4^2 + 3^2 + 2^2 + 1^2 + 0^2 = (1+3+4+5)2^2 + (1+2+4+5)2^2 + (1+2+3+5)2^2 + 0^2 = 8790$

$5^2 + 4^2 + 3^2 + 2^2 + 1^2 + 0^2 = (1+3+4+5)2^2 + (1+2+4+5)2^2 + (1+2+3+5)2^2 + 0^2 = 2088$

$5^2 + 4^2 + 2^2 + 1^2 = 315$

$5^2 + 3^2 + 1^2 = 50$

$5^2 + 3^2 + 2^2 + 1^2 + 0^2 = (1+3+4)2^2 + (1+2+4)2^2 + 0^2 = 1698$

$5^2 + 3^2 + 2^2 + 0^2 = 252$

$5^2 + 2^2 + 0^2 = 16$

$5^2 + 3^2 + 1^2 + 0^2 = 189$

$5^2 + 2^2 + 1^2 = 12$

$5^2 + 1^2 = 8$

$112555 + (1+2)3555 + (1+2+3)4555 = 4375$

$112444 + (1+2)3444 = 880$

$112333 = 99$

$112355 + (1+2)3455 = 1100$

$112344 = 120$

$112355 = 141$

$112344 + 11 = 20344470$

$112344 = 72$

$112344 = 99$

$112333 = 54$

4425+ 10260+ 5730+ 1048+ 111+ 4 + 8750+ 2088+ 315+ 20 + 1664+ 252+ 34659  
 16 + 189+ 12 + 8 + 4375+ 880+ 90 + 1100+ 120+ 150+ 704+ 72+ 96+ 54 = 7866  
 1071630 = 42525

String2 n = row k = column  $A_c$  = number, of, square, array, in, Cube, array  
 Cube Array  $A_c = 8$  1071630  
 $n = 5$   
 $k = 5$   $m = A_c - 3$

$5^2 + 5^2 + 5^2 + 5^2 = 6100$

$5^2 + 4^2 + 3^2 + 2^2 + 1^2 = (4+6+7+8)2^2 + (4+5+7+8)2^2 + (4+5+6+8)2^2 + (4+5+6+7)2^2 = 198720$

$5^2 + 4^2 + 3^2 + 2^2 + 1^2 + 0^2 = (4+6+7+8)2^2 + (4+5+7+8)2^2 + (4+5+6+8)2^2 + 0^2 = 14280$

$5^2 + 3^2 + 2^2 + 1^2 + 0^2 = (4+6+7)2^2 + (4+5+7)2^2 + 0^2 = 4710$

$5^2 + 3^2 + 1^2 + 0^2 = (4+6+7)2^2 + 0^2 = 11724$

$5^2 + 2^2 + 0^2 = 1600$

$5^2 + 4^2 + 3^2 + 2^2 + 1^2 + 0^2 = (4+6+7+8)2^2 + (4+5+7+8)2^2 + (4+5+6+8)2^2 + 0^2 = 194040$

$5^2 + 4^2 + 3^2 + 2^2 + 1^2 + 0^2 = (4+6+7+8)2^2 + (4+5+7+8)2^2 + (4+5+6+8)2^2 + 0^2 = 72184$

$5^2 + 4^2 + 2^2 + 1^2 = 2046$

$5^2 + 3^2 + 1^2 = 520$

$5^2 + 3^2 + 2^2 + 1^2 + 0^2 = (4+6+7)2^2 + (4+5+7)2^2 + 0^2 = 6310$

$5^2 + 3^2 + 2^2 + 0^2 = 1780$

$5^2 + 2^2 + 0^2 = 280$

$5^2 + 3^2 + 1^2 + 0^2 = 1530$

$5^2 + 2^2 + 1^2 = 240$

$5^2 + 1^2 = 200$

$415888 + (4+5)6888 + (4+5+6)7888 = 9168$

$415778 + (4+5)6778 = 29000$

$415668 = 970$

$415788 + (4+5)6788 = 33152$

$415678 = 672$

$415688 = 764$

$415777 + (4+5)6777 = 25260$

$415677 = 500$

$415677 = 58$

$415666 = 4320$

2800+ 15336+ 2400+ 2000+ 9168+ 29008+ 5760+ 33152+ 6720+ 7680+ 25382+ 5040+ 5880+ 4320+ 237126  
 61900+ 198720+ 142896+ 4713+ 11724+ 1600+ 194048+ 72184+ 20448+ 3200+ 6316+ 17892+ 834504  
 1071630 = 42525