i \ j	1	2	3	4	5
1	0	120 k=1	264 2	1080 2	1344 2
2		0	360 k=2	1320 2	1350 2
3			0	720 3	1140 4
4				0	1680 4
5					0

Ordre

A_1 6×10 · A_2 10×3 · A_3 3×12 · A_4 12×20 · A

Formel

$M[i,j] = M[i,k] + M[k+1,j] + P_{i-1} P_k P_j$

$P_0 \to 4$ $P_1 \to 10$ $P_2 \to 3$ $P_3 \to 12$ $P_4 = 20$ $P_5 = 7$

$i \le k < j$

$k=1$ $M[1,2] = M[1,1] + M[2,2] + P_0 P_1 P_2 = 120$

$k=2$ $M[2,3] = M[2,2] + M[3,3] + P_1 P_2 P_3 = 360$

$k=3$ $M[3,4] = M[3,3] + M[4,4] + P_2 P_3 P_4 = 720$

$k=4$ $M[4,5] = M[4,4] + M[5,5] + P_3 P_4 P_5 = 1680$

2 Serie

$k=1$ $M[1,3] = M[1,1] + M[2,3] + P_0 P_1 P_3 = 840$

$k=2$ $M[1,3] = M[1,2] + M[3,3] + P_0 P_2 P_3 = 264$

$k=2$ $M[2,4] = M[2,2] + M[3,4] + P_1 P_2 P_4 = 1320$

$k=3$ $M[2,4] = M[2,3] + M[4,4] + P_1 P_3 P_4 = 2760$

$k=3$ $M[3,5] = M[3,3] + M[4,5] + P_2 P_3 P_5 = 1332$

$k=4$ $M[3,5] = M[3,4] + M[5,5] + P_2 P_4 P_5 = 1140$

$M(1,5)$

$(A_1 A_2) \cdot (A_3 A_4 A_5)$

$(A_1 A_2) \cdot ((A_3 A_4) A_5)$

A_{12} 4×10×3 = 120 — 4×3

A_{34} 3×12×20 = 720 — 3×20

A_5 20×7

A_{345} 3×20×7 = 420 — 3×7

$A_{1\ldots5}$ 4×3×7 = 84 — 4×7

1344

3. Serie

$k=1$ $M[1,4] = M[1,1] + M[2,4] + P_0 P_1 P_4 = 1800$

$k=2$ $M[1,2] + M[3,4] + P_0 P_2 P_4 = 1080$ ✓

$k=3$ $M[1,3] + M[4,4] + P_0 P_3 P_4 = 1224$

$k=2$ $M[2,5] = M[2,2] + M[3,5] + P_1 P_2 P_5 = 1350$ ✓

$k=3$ $M[2,3] + M[4,5] + P_1 P_3 P_5 = 2880$

$k=4$ $M[2,4] + M[5,5] + P_1 P_4 P_5 = 2720$

4 Serie $M[1,5]$

$k=1$ $M[1,1] + M[2,5] + P_0 P_1 P_5 = 1630$

$k=2$ $M[1,2] + M[3,5] + P_0 P_2 P_5 = 1344$ ✓

$k=3$ $M[1,3] + M[4,5] + P_0 P_3 P_5 = 2280$

$k=4$ $M[1,4] + M[5,5] + P_0 P_4 P_5 = 1640$