

Formula:

$$m[i, k] + m[k + 1, j] + b[i - 1] * b[k] * b[j]$$

RA: 11718563

Vetor:

$$b = (a5 + 100, a8 * 4, a5 + a7, a6 * a7, a6, a5 + a6 + a7 + a8)$$

$$a5 = 8 \mid a6 = 5 \mid a7 = 6 \mid a8 = 3$$

Matriz:

$$b = (8 + 100, 3 * 4, 8 + 6, 5 * 6, 5, 8 + 5 + 6 + 3)$$

$$b = (108, 12, 14, 30, 5, 22)$$

Tabela inicial:

	1	2	3	4	5
1	0				
2		0			
3			0		
4				0	
5					0

$$i = 1 \mid j = 2 \mid k = 1$$

$$m[1, 1] + m[1 + 1, 2] + b[1 - 1] * b[1] * b[2]$$

$$0 + 0 + 108 * 12 * 14$$

$$108 * 12 * 14$$

$$18144$$

	1	2	3	4	5
1	0	$\frac{18144}{1}$			
2		0			
3			0		
4				0	
5					0

$$i = 2 \mid j = 3 \mid k = 2$$

$$m[2, 2] + m[2 + 1, 3] + b[2 - 1] * b[2] * b[3]$$

$$0 + 0 + 12 * 14 * 30$$

$$12 * 14 * 30$$

$$5040$$

	1	2	3	4	5
1	0	$\frac{18144}{1}$			
2		0	$\frac{5040}{2}$		
3			0		
4				0	
5					0

$$i = 3 \mid j = 4 \mid k = 3$$

$$\begin{aligned}
& m[3, 3] + m[3 + 1, 4] + b[3 - 1] * b[3] * b[4] \\
& 0 + 0 + 14 * 30 * 5 \\
& 14 * 30 * 5 \\
& 2100
\end{aligned}$$

	1	2	3	4	5
1	0	$\frac{18144}{1}$			
2		0	$\frac{5040}{2}$		
3			0	$\frac{2100}{3}$	
4				0	
5					0

$$i = 4 \mid j = 5 \mid k = 4$$

$$\begin{aligned}
& m[4, 4] + m[4 + 1, 5] + b[4 - 1] * b[4] * b[5] \\
& 0 + 0 + 30 * 5 * 22 \\
& 30 * 5 * 22 \\
& 3300
\end{aligned}$$

	1	2	3	4	5
1	0	$\frac{18144}{1}$			
2		0	$\frac{5040}{2}$		
3			0	$\frac{2100}{3}$	
4				0	$\frac{3300}{3}$
5					0

$$i = 1 \mid j = 3 \mid k = 1$$

$$\begin{aligned}
& m[1, 1] + m[1 + 1, 3] + b[1 - 1] * b[1] * b[3] \\
& 0 + 5040 + 108 * 12 * 30 \\
& 5040 + 108 * 12 * 30
\end{aligned}$$

$$43920$$

$$i = 1 \mid j = 3 \mid k = 2$$

$$m[1, 2] + m[2 + 1, 3] + b[1 - 1] * b[2] * b[3]$$

$$18144 + 0 + 108 * 14 * 30$$

$$18144 + 108 * 14 * 30$$

$$63504$$

	1	2	3	4	5
1	0	$\frac{18144}{1}$	$\frac{43920}{1}$		
2		0	$\frac{5040}{2}$		
3			0	$\frac{2100}{3}$	
4				0	$\frac{3300}{3}$
5					0

$$i = 2 \mid j = 4 \mid k = 2$$

$$m[2, 2] + m[2 + 1, 4] + b[2 - 1] * b[2] * b[4]$$

$$0 + 2100 + 12 * 14 * 5$$

$$2100 + 12 * 14 * 5$$

$$2940$$

$$i = 2 \mid j = 4 \mid k = 3$$

$$m[2, 3] + m[3 + 1, 4] + b[2 - 1] * b[3] * b[4]$$

$$5040 + 0 + 12 * 30 * 5$$

$$5040 + 12 * 30 * 5$$

$$6840$$

	1	2	3	4	5
1	0	$\frac{18144}{1}$	$\frac{43920}{1}$		
2		0	$\frac{5040}{2}$	$\frac{2940}{2}$	
3			0	$\frac{2100}{3}$	
4				0	$\frac{3300}{3}$
5					0

$$i = 3 \mid j = 5 \mid k = 3$$

$$m[3, 3] + m[3 + 1, 5] + b[3 - 1] * b[3] * b[5]$$

$$0 + 3300 + 14 * 30 * 22$$

$$3300 + 14 * 30 * 22$$

$$12540$$

$$i = 3 \mid j = 5 \mid k = 4$$

$$m[3,4] + m[4+1,5] + b[3-1] * b[4] * b[5]$$

$$2100 + 0 + 14 * 5 * 22$$

$$2100 + 14 * 5 * 22$$

$$3640$$

	1	2	3	4	5
1	0	$\frac{18144}{1}$	$\frac{43920}{1}$		
2		0	$\frac{5040}{2}$	$\frac{2940}{2}$	
3			0	$\frac{2100}{3}$	$\frac{3640}{4}$
4				0	$\frac{3300}{3}$
5					0

$$i = 1 \mid j = 4 \mid k = 1$$

$$m[1,1] + m[1+1,4] + b[1-1] * b[1] * b[4]$$

$$0 + 2940 + 108 * 12 * 5$$

$$2940 + 108 * 12 * 5$$

$$9420$$

$$i = 1 \mid j = 4 \mid k = 2$$

$$m[1,2] + m[2+1,4] + b[1-1] * b[2] * b[4]$$

$$18144 + 2100 + 108 * 14 * 5$$

$$18144 + 2100 + 108 * 14 * 5$$

$$27804$$

$$i = 1 \mid j = 4 \mid k = 3$$

$$m[1,3] + m[3+1,4] + b[1-1] * b[3] * b[4]$$

$$43920 + 0 + 108 * 30 * 5$$

$$43920 + 108 * 30 * 5$$

$$60120$$

	1	2	3	4	5
1	0	$\frac{18144}{1}$	$\frac{43920}{1}$	$\frac{9420}{1}$	
2		0	$\frac{5040}{2}$	$\frac{2940}{2}$	
3			0	$\frac{2100}{3}$	$\frac{3640}{4}$
4				0	$\frac{3300}{3}$
5			4		0

$$i = 2 \mid j = 5 \mid k = 2$$

$$\begin{aligned}
& m[2, 2] + m[2 + 1, 5] + b[2 - 1] * b[2] * b[5] \\
& 0 + 3640 + 12 * 14 * 22 \\
& 3640 + 12 * 14 * 22 \\
& 7336
\end{aligned}$$

$$i = 2 \mid j = 5 \mid k = 3$$

$$\begin{aligned}
& m[2, 3] + m[3 + 1, 5] + b[2 - 1] * b[3] * b[5] \\
& 5040 + 3300 + 12 * 30 * 22 \\
& 5040 + 3300 + 12 * 30 * 22 \\
& 16260
\end{aligned}$$

$$i = 2 \mid j = 5 \mid k = 4$$

$$\begin{aligned}
& m[2, 4] + m[4 + 1, 5] + b[2 - 1] * b[4] * b[5] \\
& 2940 + 0 + 12 * 5 * 22 \\
& 2940 + 12 * 5 * 22 \\
& 4260
\end{aligned}$$

	1	2	3	4	5
1	0	$\frac{18144}{1}$	$\frac{43920}{1}$	$\frac{9420}{1}$	
2		0	$\frac{5040}{2}$	$\frac{2940}{2}$	$\frac{4260}{4}$
3			0	$\frac{2100}{3}$	$\frac{3640}{4}$
4				0	$\frac{3300}{3}$
5					0

$$i = 1 \mid j = 5 \mid k = 1$$

$$\begin{aligned}
& m[1, 1] + m[1 + 1, 5] + b[1 - 1] * b[1] * b[5] \\
& 0 + 4260 + 108 * 12 * 22 \\
& 4260 + 108 * 12 * 22 \\
& 32772
\end{aligned}$$

$$i = 1 \mid j = 5 \mid k = 2$$

$$\begin{aligned}
& m[1, 2] + m[2 + 1, 5] + b[1 - 1] * b[2] * b[5] \\
& 18144 + 3640 + 108 * 14 * 22 \\
& 18144 + 3640 + 108 * 14 * 22
\end{aligned}$$

55048

$$i = 1 \mid j = 5 \mid k = 3$$

$$m[1, 3] + m[3 + 1, 5] + b[1 - 1] * b[3] * b[5]$$

$$43920 + 3300 + 108 * 30 * 22$$

$$43920 + 3300 + 108 * 30 * 22$$

$$118500$$

$$i = 1 \mid j = 5 \mid k = 4$$

$$m[1, 4] + m[4 + 1, 5] + b[1 - 1] * b[4] * b[5]$$

$$9420 + 0 + 108 * 5 * 22$$

$$9420 + 108 * 5 * 22$$

$$21300$$

	1	2	3	4	5
1	0	$\frac{18144}{1}$	$\frac{43920}{1}$	$\frac{9420}{1}$	$\frac{21300}{4}$
2		0	$\frac{5040}{2}$	$\frac{2940}{2}$	$\frac{4260}{4}$
3			0	$\frac{2100}{3}$	$\frac{3640}{4}$
4				0	$\frac{3300}{3}$
5					0