A[1..4] $A_1 \dots A_4$

10x20x5x10x8

1. Costo total
2. Forma de dividir los parentesis

$$m[i,j]: \begin{cases} 0 & \text{si } i=j \\ \min_{i \le k < j} \{m[i,k] + m[k+1,j] + p_{i-1} p_k p_j\} & \text{si } i<j \end{cases}$$

$(A_1 \mid A_2)(A_3 \mid A_4)$

	1	2	3	4
1	0	1000 (1)	1500 (2)	1600 (2)
2		0	1000 (2)	1200 (2)
3			0	400 (3)
4				0

$M[1,4] = \begin{cases} M[1,1] + M[2,4] + p_0 p_1 p_4 = 0 + 1200 + 1000 = 2000 \\ M[1,2] + M[3,4] + p_0 p_2 p_4 = 1000 + 400 + 400 = 1800 \\ M[1,3] + M[4,4] + p_0 p_3 p_4 = 1800 + 0 + 800 = 2300 \end{cases}$

$M[1,2] = M[1,1] + M[2,2] + p_0 p_1 p_2$

$M[2,3] = M[2,2] + M[3,3] + p_1 p_2 p_3$

$M[3,4] = M[3,3] + M[4,4] + p_2 p_3 p_4$

$M[1,3] = \begin{cases} M[1,1] + M[2,3] + p_0 p_1 p_3 = 0 + 1500 + 2000 \\ M[1,2] + M[3,3] + p_0 p_2 p_3 = 1000 + 0 + 500 \end{cases}$

$M[2,4] = \begin{cases} M[2,2] + M[3,4] + p_1 p_2 p_4 = 0 + 400 + 800 \\ M[2,3] + M[4,4] + p_1 p_3 p_4 = 1000 + 0 + 1600 \end{cases}$