

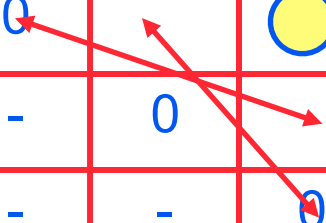



i \ j	1	2	3	4	5	6
1	0					
2	-	0				
3	-	-	0			
4	-	-	-	0		
5	-	-	-	-	0	
6	-	-	-	-	-	0

$$\begin{aligned}
 DP[1,2] &= \min_{1 \leq k < 2} \{ DP[1,k] + DP[k+1,2] + c_0 c_k c_2 \} \\
 &= DP[1,1] + DP[2,2] + c_0 c_1 c_2 \\
 &= c_0 c_1 c_2
 \end{aligned}$$


$i \setminus j$	1	2	3	4	5	6
1	0					
2	-	0				
3	-	-	0			
4	-	-	-	0		
5	-	-	-	-	0	
6	-	-	-	-	-	0

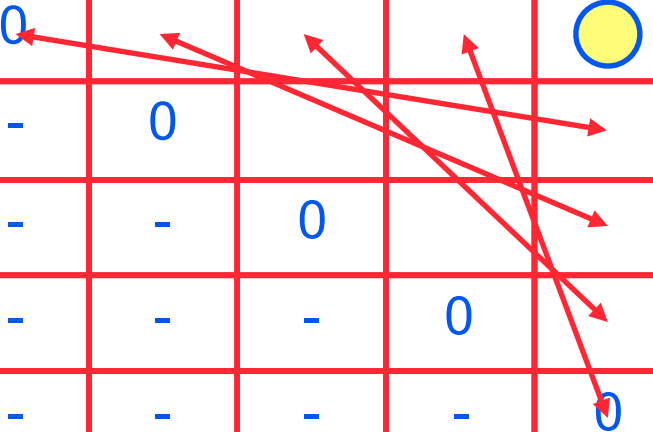


$$\begin{aligned}
 DP[2,4] &= \min_{2 \leq k < 4} \{ DP[2,k] + DP[k+1,4] + c_1 c_k c_4 \} \\
 &= \min \{ DP[2,2] + DP[3,4] + c_1 c_2 c_4, \\
 &\quad DP[2,3] + DP[4,4] + c_1 c_3 c_4 \}
 \end{aligned}$$


i \ j	1	2	3	4	5	6
1	0					
2	-	0				
3	-	-	0			
4	-	-	-	0		
5	-	-	-	-	0	
6	-	-	-	-	-	0

$$\begin{aligned}
 DP[2,5] &= \min_{2 \leq k < 5} \{ DP[2,k] + DP[k+1,5] + c_1 c_k c_5 \} \\
 &= \min \{ DP[2,2] + DP[3,5] + c_1 c_2 c_5, \\
 &\quad DP[2,3] + DP[4,5] + c_1 c_3 c_5, \\
 &\quad DP[2,4] + DP[5,5] + c_1 c_4 c_5 \}
 \end{aligned}$$

i \ j	1	2	3	4	5	6
1	0					
2	-	0				
3	-	-	0			
4	-	-	-	0		
5	-	-	-	-	0	
6	-	-	-	-	-	0



$$\begin{aligned}
 DP[1,5] &= \min_{1 \leq k < 5} \{ DP[1,k] + DP[k+1,5] + c_0 c_k c_5 \} \\
 &= \min \{ \quad DP[1,1] + DP[2,5] + c_0 c_1 c_5, \\
 &\quad DP[1,2] + DP[3,5] + c_0 c_2 c_5, \\
 &\quad DP[1,3] + DP[4,5] + c_0 c_3 c_5, \\
 &\quad DP[1,4] + DP[5,5] + c_0 c_4 c_5 \quad \}
 \end{aligned}$$

i \ j	1	2	3	4	5	6
1	0					
2	-	0				
3	-	-	0			
4	-	-	-	0		
5	-	-	-	-	0	
6	-	-	-	-	-	0

$$\begin{aligned}
 DP[1,6] &= \min_{1 \leq k < 6} \{ DP[1,k] + DP[k+1,6] + c_0 c_k c_6 \} \\
 &= \min \{ \begin{aligned}
 &DP[1,1] + DP[2,6] + c_0 c_1 c_6, \\
 &DP[1,2] + DP[3,6] + c_0 c_2 c_6, \\
 &DP[1,3] + DP[4,6] + c_0 c_3 c_6, \\
 &DP[1,4] + DP[5,6] + c_0 c_4 c_6, \\
 &DP[1,5] + DP[6,6] + c_0 c_5 c_6 \}
 \end{aligned}
 \end{aligned}$$