

$$\text{dp}[i][j] = \begin{cases} \min_{\{i \leq r \leq j\}} (\text{dp}[i][r-1] + \text{dp}[r+1][j]) + w(i, j) & \text{if } j - i = 1 \\ q_{i-1} & \text{if } j - i = 1 \end{cases}$$

$$\text{其中 } w(i, j) = \sum_{k=i}^j p_k + \sum_{k=i-1}^j q_k$$