

$$c[1, 3] = \min_{1 \leq k < 3} \begin{matrix} k=1 & \left\{ \begin{array}{l} c[1, 1] + c[1 + 1, 3] + d_{1-1} \times d_1 \times d_3 \end{array} \right\} \\ k=2 & \left\{ \begin{array}{l} c[1, 2] + c[2 + 1, 3] + d_{1-1} \times d_2 \times d_3 \end{array} \right\} \end{matrix}$$

$$c[1, 3] = \min_{1 \leq k < 3} \begin{matrix} k=1 & \left\{ \begin{array}{l} c[1, 1] + c[2, 3] + d_0 \times d_1 \times d_3 \end{array} \right\} \\ k=2 & \left\{ \begin{array}{l} c[1, 2] + c[3, 3] + d_0 \times d_2 \times d_3 \end{array} \right\} \end{matrix}$$

$$c[1, 3] = \min_{1 \leq k < 3} \begin{matrix} k=1 & \left\{ \begin{array}{l} 0 + 16 + (3 \times 2 \times 2) \end{array} \right\} \\ k=2 & \left\{ \begin{array}{l} 24 + 0 + (3 \times 4 \times 2) \end{array} \right\} \end{matrix}$$

$$c[1, 3] = \min_{1 \leq k < 3} \begin{matrix} k=1 & \left\{ \begin{array}{l} 0 + 16 + 12 \end{array} \right\} \\ k=2 & \left\{ \begin{array}{l} 24 + 0 + 24 \end{array} \right\} \end{matrix}$$

$$c[1, 3] = \min_{1 \leq k < 3} \begin{matrix} k=1 & \left\{ \begin{array}{l} 28 \end{array} \right\} \\ k=2 & \left\{ \begin{array}{l} 48 \end{array} \right\} \end{matrix}$$

(1)

$$c[1, 3] = \min_{1 \leq k < 3} \begin{matrix} k=1 & \left\{ \begin{array}{l} c[1, 1] + c[1 + 1, 3] + d_{1-1} \times d_1 \times d_3 \end{array} \right\} \\ k=2 & \left\{ \begin{array}{l} c[1, 2] + \cdots \end{array} \right\} \\ k=3 & \left\{ \begin{array}{l} c[1, 2] + c[2 + 1, 3] + d_{1-1} \times d_2 \times d_3 \end{array} \right\} \end{matrix}$$

(2)