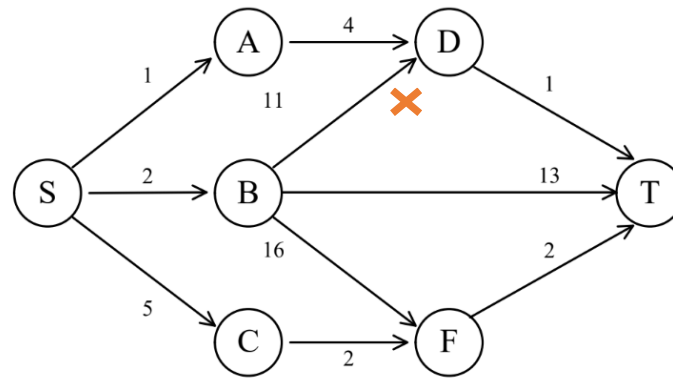


練習

用DP方式找出最短路徑



$$d(S,A) = 1$$

$$d(S,B) = 2$$

$$d(S,C) = 5$$

$$d(S,D) = \min\{ d(S,A)+d(A,D), d(S,B)+d(B,D) \}$$

$$= \min\{ 1+4, 2+11 \} = 5$$

$$d(S,F) = \min\{ d(S,B)+d(B,T), d(S,C)+d(C,F) \}$$

$$= \min\{ 2+12, 5+2 \} = 7$$

$$d(S,T) = \min\{ d(S,D)+d(D,T), d(S,B)+d(B,T), d(S,F)+d(F,T) \}$$

$$= \min\{ 5+1, 2+13, 7+2 \} = 6$$

$$d(B,T) = \min\{ d(B,D)+d(D,T), d(B,T), d(B,F)+d(F,T) \}$$

$$= \min\{ 11+1, 13, 16+2 \} = 12$$