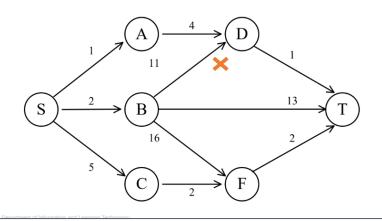
2020/12/9 Algorithm

練習

用DP方式找出最短路徑



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

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

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

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

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

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

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

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

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

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

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