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,F), d(S,C)+ d(C,F)} = min{2+16,5+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

i = 1+6 = p[18]

i = 3+4 = p[17]

i = 7= p[17]

i = 2+5 = p[15]