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

(7) 17

(6,1) 18

(5,1,1) 12

(5,2) 15

(4,1,1,1) 12

(4,1,2) 15

(4,3) 17

(3,1,1,1,1) 12

(3,1,1,2) 15

(3,2,2) 18

(3,3,1) 17

(2,1,1,1,1,1) 10

(2,1,1,1,2) 13

(2,1,2,2) 16