d(S,T)=min(1+d(A,T),2+d(B,T),5+d(C,T))

d(A,T)=min(4+d(D,T))=4+1=5

d(B,T)=min(11+d(D,T),13+d(B,T),16+d(F,T))

=min(12,13,18)=12

d(C,T)=min(2+d(F,T))=4

d(S,T)=min(6,14,9)=6