12/9

最短路徑

d(S,T)

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

d(S,A)=1

d(S,B)=2

d(S,C)=5

d(A,T)

= min{4+d(D,T)}

= min{4+1}=5

d(B,T)

= min{2+d(D,T),13,16+d(F,T)}

= min{11+1,13,16+2}

= min{12,13,18}=12

d(C,T)

= min{2+d(F,T)}

= min{2+2}=4

d(S,T)

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

= min{1+5,2+12,5+4}

= min{6,14,9}=6

所以，d(S,T)=6

鐵條切割

7.17=17

1.1+6.17=18

2.5+5.10=15

1.1+1.1+5.10=12

3.8+4.9=17

3.8+2.5+2.5=18

最高是

1.1+6.17=18,

3.8+2.5+2.5=18