x to z:

x-y-z, x-y-w-z, x-w-z, x-w-y-z, x-v-w-z, x-v-w-y-z, x-u-w-z, x-u-w-y-z, x-u-v-w-z, x-u-v-w-y-z

z to u:

z-w-u, z-w-v-u, z-w-x-u, z-w-v-x-u, z-w-x-v-u, z-w-y-x-u, z-w-y-x-v-u, z-y-x-u, z-y-x-v-u, z-y-x-w-u, z-y-x-w-y-u, z-y-x-v-w-u, z-y-w-v-u, z-y-w-x-u, z-y-w-v-x-u, z-y-w-x-v-u, z-y-w-y-x-u, z-y-w-y-x-v-u

z to w:

z-w, z-y-w, z-y-x-w, z-y-x-v-w, z-y-x-u-w, z-y-x-u-v-w, z-y-x-v-u-w

P7

a)

D<sub>x</sub>(w)=2,D<sub>x</sub>(y)=4,D<sub>x</sub>(u)=7

b)

for c(x,w)，c(x,w)>6

for c(x,y),c(x,y)=1

c)

It can not change the minimum cost path, even if C (x, y) becomes any value

P6

a） 1000100011，R=0101

b） 1011111111，R=0001

c） 0101101110， R=0010