

1 L= Start X L= Target X LOS

1 LE Start Y L= Target Y LOS

Apecial Road length = 5

Start X Le X; Start Y LOS

1 LE COSE LOS

1. Special Reacks may or may not be minimum 2. Minimum cost = Shortest path Verify special Road = minimum Relaxation (if d[v] > d[v] + w(u,v) Gensterns O(V2) va/ Brute Lorce adjacent motPix adjacent list O(v) w/ O(VlgEfElgV) w/ minheap No negative cycle Weighted Direct Graph

Pseudo

Verify Special Roads

for XI, X2, YI, Y2 (in Special Roads

if C< ((XI-X2) + (YI-Y2)):

g(XI, X2) add (X2, Y2, C)

ends. add (X2, Y2)

ad

Start [1,1] Target [4,5]

$$GR [1,2,3,3,2], [3,4,4,5,1]$$

$$g(1,2) = (3,3,2), g(3,4) = (4,5,1)$$
Starts [(1,2),(3,4),(4,5)]

ends [(3,3),(4,5),(1,1)]

$$g(1,2) = (3,3,2)$$

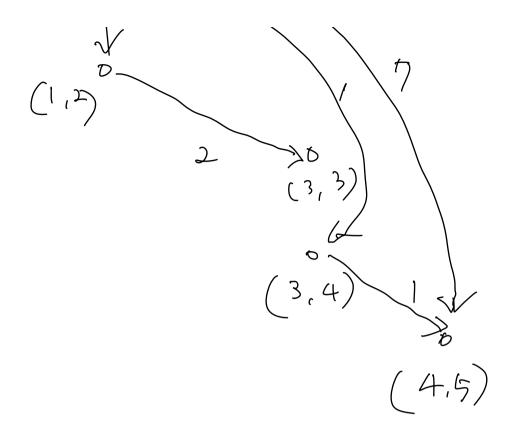
$$g(3,4) = (4,5,1)$$

$$g(1,1) = (4,5,7), (1,2,1), (3,4,5)$$

$$g(4,5) = ((1,2,6), (4,5,0), (3,4,2))$$

$$g(3,3) = (4,5,3), (1,2,3), (3,4,1)$$

$$f(4,5,3), (1,2,3), (3,4,1)$$



minimal = | Start[0] - target[0] | + [Start[1] - Target[1]

Start [1,1] Target [4,5]

6R [1,2,3,3,2] [3,4,4,5,1]

g(1,2) = (3,3,2) g(3,4) = (4,5,1)

Startes [(1,2), (3,4), (4,5)] ends [(3,3), (4,5) (1,1)]

9(1,2)=(3,3,2)

g (3,4) = (4,5,1)

19(3,3)=(1,2,3)

g(3,3) = (3,4,1)

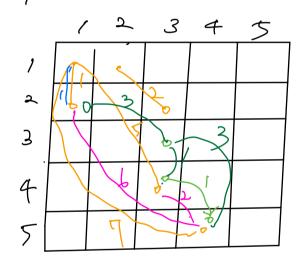
(9(3,3)=(4,5,3)

g(4,5)=(1,2,6) g(4,5)=(3,4,2)

g(4,5)=(4,5,0)

g(1,1)=(1,2 1 1)

9(1,1)=(3,4,3)



9(1,1) 2 (4,5,1)