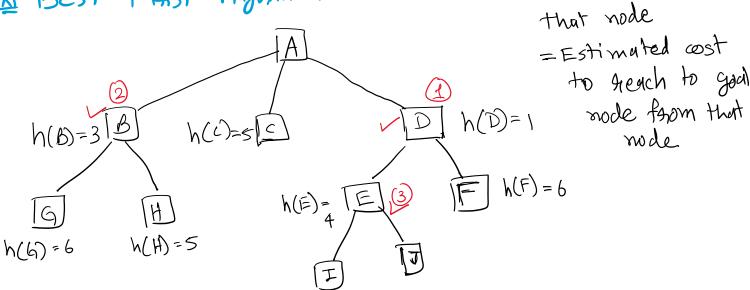
A Best First Algorithm



Algorithm 'A' Family:

Any algorithm that considers an evaluation function

h(Node) = Henristic value of

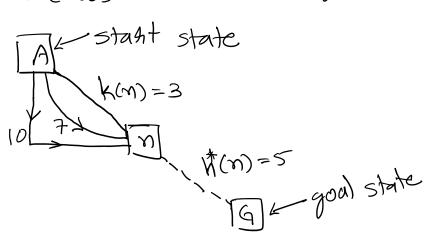
f(n) = k(n) + k(n) is called Algorithm A where

k(n) = Actual cost to heach to node 'n' from the start node through the shortest puth (minimum cost)

W(n) = Hengistic value of mode 'n'

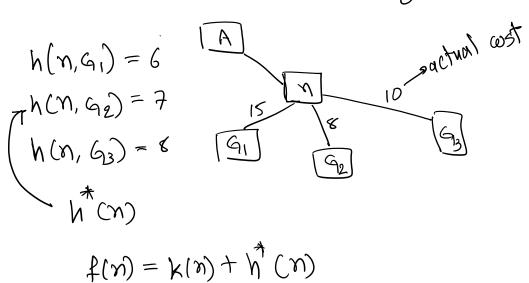
(Estimate of the cost to reach to goal mode from

node 'n')

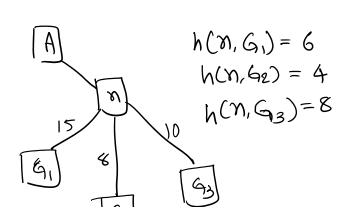


## -> In case of multiple goal states:

to reach to the newfrest goal node. (actual cost)



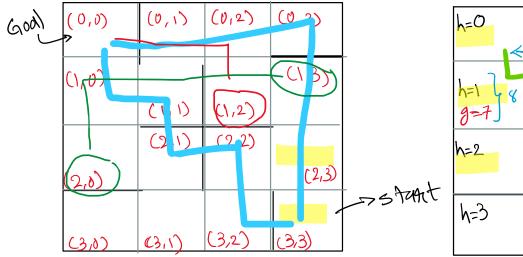
## # Algorithm A\*:





## \* Program logic:

Hentistic function = Manhattan Distance h-value = black f-value = blue g-value = gred



h=0	h=1)	h=2	h=3 \8
	g=5)6	g=4 16	8=5 \8
h=1 7 8	1=2	h= 3 6 9=3 6	h=4
g=7	g=6		j=2 6
h=2			N=5}=6
h=3	h=4 }8	h=5 18	N=6
	3=4 }8	8=3 18	S=0