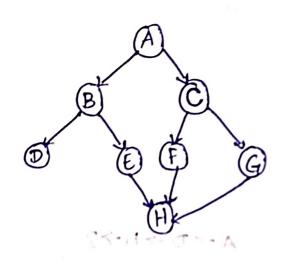
22-12-23

## PROBLEMS: PRACTICE

Find the path to the Goal state using greedy liest Thurs Past fast Score first leasth algorithm.



Nodes	Heuristics
Α	B
B 120	. 10812 Livery
C	٩
D	ू न
(E) (S) 3	
F	8.
(A)	2 ' 1 H
* H	0

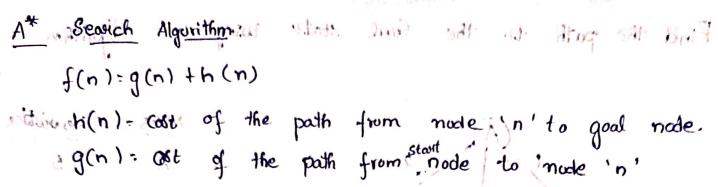
bannel &

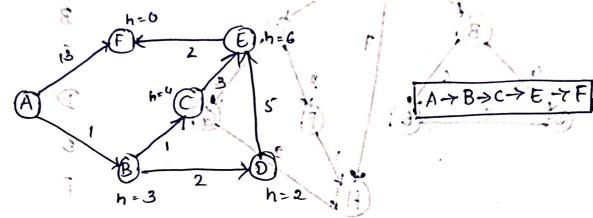
1. 
$$A \rightarrow B = 12$$

Short log  $A^{\dagger} \rightarrow C^{\dagger} = 4^{\circ}$  soon much the

A+c→G→H=0

2. 
$$A \rightarrow B + \times K = 12$$
  
 $A \rightarrow C \rightarrow F = 8$   
 $A \rightarrow C \rightarrow G = 2$ 





A-B-1-3=4

1. 
$$A \rightarrow B = f(n) = g(n) + h(n)$$
  
 $A \rightarrow B = 1 + 3 \Rightarrow 4$   
 $A \Rightarrow F = 13 + 0 \Rightarrow 13$ 

2. 
$$A \rightarrow F = 13$$
  
 $A \rightarrow F = 13$   
 $A \rightarrow B \rightarrow C = 1 + 3 + 4 \neq 6$   
 $A \rightarrow B \rightarrow D = 1 + 2 + 2 = 5$   
 $A \rightarrow B \rightarrow D = 1 + 2 + 2 = 5$   
 $A \rightarrow B \rightarrow D = 1 + 2 + 2 = 5$   
 $A \rightarrow B \rightarrow D = 1 + 2 + 2 = 5$   
 $A \rightarrow B \rightarrow D = 1 + 2 + 2 = 5$ 

Find the path to the Goal state Using all Algorithm (a) 4+ (a)p+ a Notes ( ) Hewriting in 2 mort 4 A ( 1) 6 5 D (A) 2 3 (4)44(4)6 + (4) PH. 8 4- Y A -> B = 1+3 = 4 1. A -> C = 2+ 4 = 8 A -> H= 7 + 0 = 7  $A \rightarrow B = 6$ 2. A->H=7.  $A \rightarrow B \rightarrow D = 1+4+2=7$ A->B->6=1+6+6=13 A > H=7 3 -11-2+6+6 11 A >B >D = 4 A >B>E=13 A>C>F=2+3+3=8 A > C + G = 2 + 2 + 1 = 5 A -> H=7 4. A>B>D=7 A>B>E=B. A >C > F = 8  $A \rightarrow C \rightarrow G \rightarrow H = 2+2+2+0=6$  $A \rightarrow C \rightarrow G \rightarrow H$