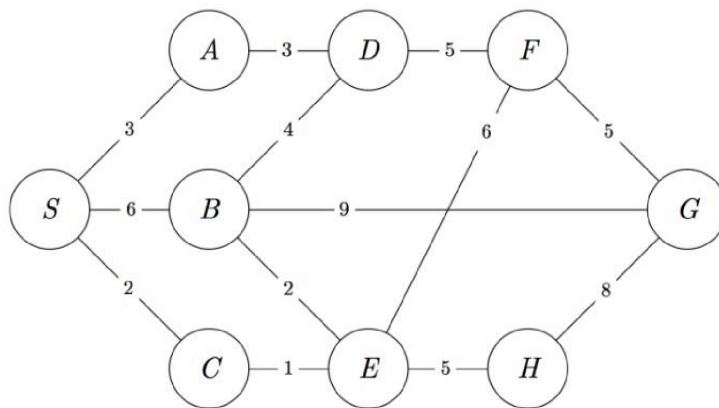


CS 340 Artificial Intelligence
Quiz # 2 (CLO 2)
19 March, 2025
Total Marks :10

Name: _____

No: _____

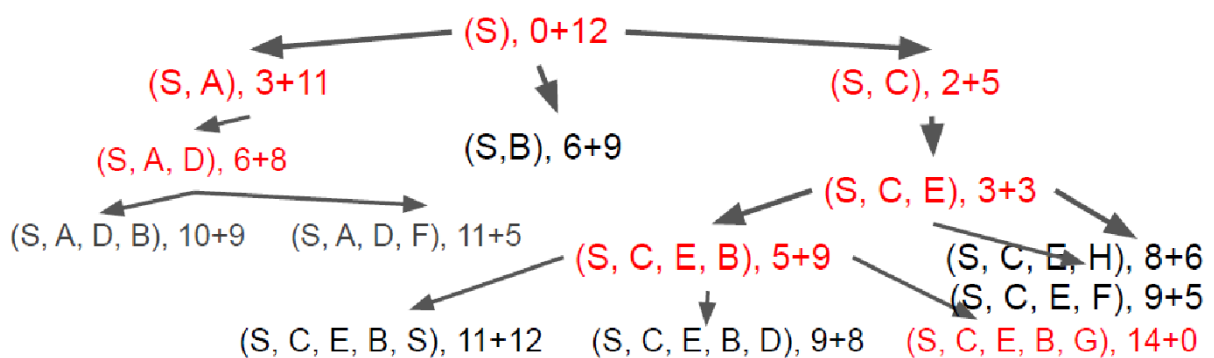
Q. For the A* algorithm, find the nodes expanded and the path from **S** to **G** (break ties alphabetically): Edges are bi-directional. To get credit, annotate the values of $f(n)$, $g(n)$ and $h(n)$ appropriately.



State	$h(n)$
S	12
A	11
B	9
C	5
D	8
E	3
F	5
H	6
G	0

A*

closed_list = {S,C,E,A,D,B,G}



Node expanded: 7

Path returned: (S, C, E, B, G)

Declare Success!!!