Q: Consider the search problem below with start state S and goal state G. The transition costs are next to the edges, and the heuristic values are next to the states

**S**

3

**A**

4

**C**

2

**D**

3

**E**

1

**B**

2

**G**

0

*1*

*1*

*1*

*3*

*1*

*3*

*3*

*4*

*5*

*1*

*2*

*2*