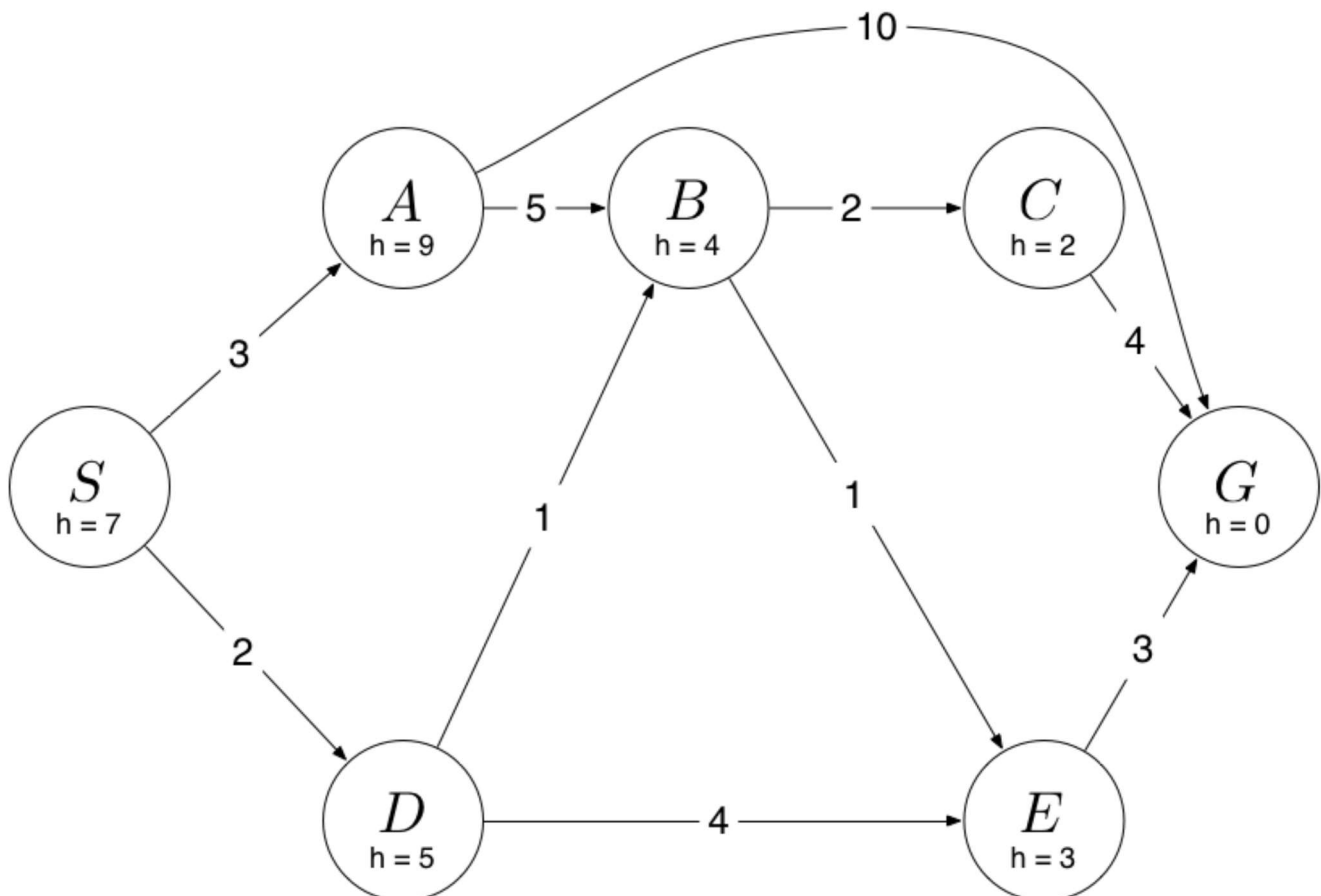# Quiz 3: A* Tree Search
Quiz 3: A* Tree Search

7/7 points (ungraded)

Consider the graph shown below. When running A* tree search, the first node expanded is S (like all search algorithms). After expanding S, two nodes will be on the fringe: $(S \rightarrow A)$ and $(S \rightarrow D)$. Fill in the following values:

$g\left((S \rightarrow A)\right) =$

3 ✔

$h\left((S \rightarrow A)\right) =$

9 ✔

$f\left((S \rightarrow A)\right) =$

12 ✔

$g\left((S \rightarrow D)\right) =$

2 ✔

$h\left((S \rightarrow D)\right) =$

5 ✔

$f\left((S \rightarrow D)\right) =$

7 ✔

Which node will be expanded next?

○ $(S \rightarrow A)$

◉ $(S \rightarrow D)$ ✔

Submit

✔ Correct (7/7 points)