

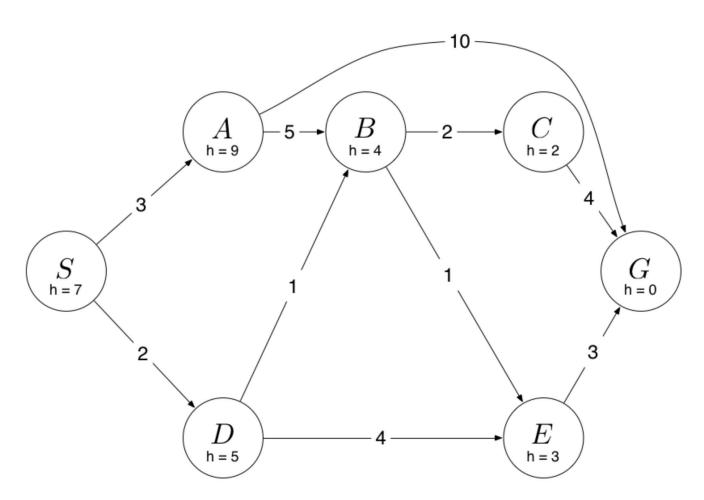
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## Quiz 4: A\* Tree Search

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3/3 points (ungraded)

For the graph shown below, run A\* tree search. Assume that ties are broken alphabetically. For example, a partial plan  $S \to X \to A$  would be expanded before  $S \to X \to B$ ; similarly,  $S \to A \to Z$  would be expanded before  $S \to A$ .



Is the heuristic admissible?

What solution is returned by A\* tree search?

$$\circ$$
  $S o A o G$ 

$$\circ$$
  $S o A o B o C o G$ 

$$ullet$$
  $S o D o B o E o G$ 

$$lacksquare S 
ightarrow D 
ightarrow E 
ightarrow G$$

Which of the nodes below will be expanded during A\* tree search?

$$\quad \ \, \square \ \, (S \to A)$$

$$\ \ \, \square \ \, (S \to A \to B \to C)$$

$$\square$$
  $(S o D o E)$ 

None of the above



Submit

✓ Correct (3/3 points)

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