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Q6: Short Answer: Search

Problem 6: Short Answer: Search

Consider a graph search problem where for every action, the cost is at least ϵ , with $\epsilon > 0$. Assume the used heuristic is consistent. Select whether each of the following statements is true or false.

Part 1

0.0/1.0 point (ungraded)

Depth-first graph search is guaranteed to return an optimal solution.

☐ True

☒ False ✓

Submit

You have used 0 of 1 attempt

i Answers are displayed within the problem

Part 2

0.0/1.0 point (ungraded)

Breadth-first graph search is guaranteed to return an optimal solution.

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☒ False ✓

Submit

You have used 0 of 1 attempt

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Part 3

0.0/1.0 point (ungraded)

Uniform-cost graph search is guaranteed to return an optimal solution.

☒ True ✓

☐ False

Submit

You have used 0 of 1 attempt

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Part 4

0.0/1.0 point (ungraded)

Greedy graph search is guaranteed to return an optimal solution.

☐ True

☒ False ✓

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Part 5

0.0/1.0 point (ungraded)

A* graph search (with a consistent heuristic) is guaranteed to return an optimal solution.

☒ True ✓

☐ False

Submit

You have used 0 of 1 attempt

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Part 6

0.0/1.0 point (ungraded)

A* graph search (with a consistent heuristic) is guaranteed to expand no more nodes than depth-first graph search.

☐ True

☒ False ✓

Submit

You have used 0 of 1 attempt

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Part 7

0.0/1.0 point (ungraded)

A* graph search (with a consistent heuristic) is guaranteed to expand no more nodes than uniform-cost graph search.

☒ True ✓

☐ False

Submit

You have used 0 of 1 attempt

 Answers are displayed within the problem

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