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QQ5

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0 points possible (ungraded)

Which of the following statements are true concerning the Traveling Salesman Problem? (You may check more than one choice)

- a) Once the 2-Opt heuristic finishes, the solution is guaranteed to be optimal
- ☑ b) Opportunities for a "swap" of arcs tend to be where arcs cross in the tour
 ✓
- c) The 2-Opt heuristic is a construction algorithm.
- lacktriangledown d) The 2-Opt heuristic is an improvement algorithm. \checkmark
- e) If N is the number of nodes in the network, then there will be (N-1)/2 potential swaps



Explanation

The correct answers are b and d.

- a) False. It will be better, but is not gauranteed to be optimal.
- b) True. These are obvious candidates for swapping.
- c) False. The heuristic works on an existing tour, so it is an improvement algorithm
- d) True. Since this is the opposite of (c)!
- e) False. I just made this up. It is nonsense.

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You have used 2 of 3 attempts

1 Answers are displayed within the problem

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