Practice questions: Traveling Salesman Problem

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3/3 points (ungraded)

1. In graph theory, the TSP corresponds to:

- ◯ A problem in which we aim to find the shortest path from a vertex u to a vertex v in a weighted graph.
- ◯ The Team Supporting Pyrat (TSP).
- ◉ A problem in which we aim to find the shortest route going through all vertices of a weighted graph from an initial vertex. ✔

2. Reducing a problem p to a problem q involves:

- ◯ Finding the entries of problem p for which q gives the same outputs.
- ◯ Keeping the part of p that is simpler than q.
- ◉ Finding a way to solve p using any algorithm designed to solve q. ✔

3. The TSP processes an input that is best described as:

- ◉ A complete weighted graph and an initial vertex. ✔
- ◯ An unweighted tree and a root vertex.
- ◯ A tetrahedron.

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