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Practice questions: Graph Traversal

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Questions on Graph Traversal

3/3 points (ungraded)

1. A graph traversal is a way to (2 correct answers):

- ☐ Split the graph in half.
- ☒ Explore the graph, one vertex at a time, using knowledge about the neighbors of explored vertices.
- ☒ Obtain the list of accessible vertices from an initial one



2. Let's say we use a DFS from vertex v_1 on an unweighted graph. Which of the following propositions are true (2 correct answers)?

- ☒ We obtain a spanning tree, covering the accessible vertices from v_1 .
- ☐ We obtain shortest paths from v_1 to the accessible vertices of the graph.
- ☒ We follow a trail, as long as there are unexplored vertices to jump to.
- ☐ We go through each edge of the graph exactly one time.



3. Let's say we use a BFS from vertex v_1 on an unweighted graph. Which of the following propositions are true (2 correct answers)?

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Answers are displayed within the problem



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