

[End My Exam](#)

0:14:02

[Course](#) > [Quiz 3 \(...\)](#) > [Quiz 3 ...](#) > Quiz 3 ...

Quiz 3 Question


BFS DFS

5 points possible (graded, results hidden)

Q. The Data structure used in standard implementation of Depth First Search is?

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[End My Exam](#)0:14:02 ☐ QMNROP☒ QMRNOP☐ QMNORP☐ QNPRMO


Q. Which of the algorithms can be used to create a tree from a connected graph?

☐ Only BFS☒ Both BFS and DFS☐ Only DFS☐ None of them

Q. With DFS how many nodes can we traverse of a graph which contains cycle?

☒ all the nodes☐ all the nodes that doesn't belong to the cycle☐ if the number of nodes is n and there is only 1 cycle, it will traverse $n-1$ nodes

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Q. We need visited, color flag in traversing algorithms to

☒ visit the nodes only once☐ backtrack the nodes☐ find out the parent nodes☒ check later that all the nodes are visited or not[Submit](#)

You have used 1 of 1 attempt

 Answer submitted.

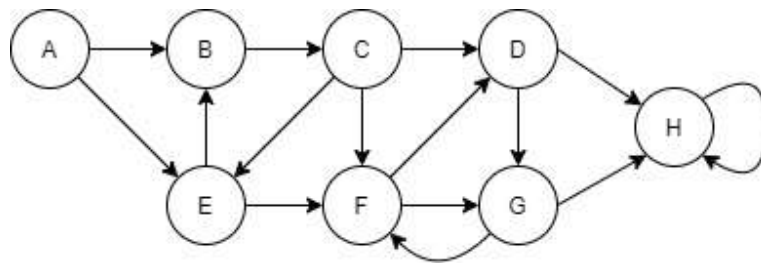

DAG TS SCC

5 points possible (graded, results hidden)

Q. The maximum number of edges, a DAG with 4 verteces can have, is-

☐ 0☐ 4☐ 6☒ 8☐ 12


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Q. Which of the following statements is **false** for Strongly Connected Components (SCC)?

☐ If a digraph has only an SCC, then the graph is said to be strongly connected.☐ Each SCC of a graph G is a subgraph of G.☐ There should be no edges among the SCCs of a graph.☒ It can be used in the classification of edges in bipartite graphs.

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- c. Determine starting time $v.t$ for each vertex v
- d. Determine finishing time $v.t$ for each vertex v
- e. Sort each vertex in descending order of $v.t$ for each vertex v
- f. Sort each vertex in ascending order of $v.t$ for each vertex v

☐ a then c then e☐ a then c then f☒ a then d then e☐ a then d then f☐ b then d then e☐ b then d then f

Q. Suppose, you are given a digraph whose edge set $E = \{(P, Q), (Q, R), (R, S), (Q, T), (T, U)\}$. Mark all the topologically sorted order from below-

☐ P Q R S T U☐ P Q U T S R☒ P Q T R U S☐ P Q R S U T

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i Answer submitted.

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