## Review Test - Algorithm and Data

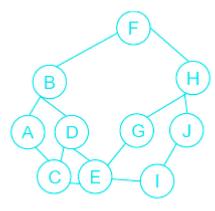
Structures
Max:Marks-12 Time: 10 min
pranitt1398@gmail.com Switch account
② Draft saved
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Which of the following statement are true?	* 1 point				
Statement 1: Depth First Search uses the stack data structure.					
Statement 2: Breadth First Search uses the queue data structure.					
Statement 3: Depth First Search uses a backtracking technique.					
Statement 4: Breadth-first search uses the Branch-and-Bound traverse technique					
Only 1					
only 1 and 2 only					
<ul><li>1, 2 and 3 only</li></ul>					
1, 2, 3, and 4					
Depth First Search graph search algorithm uses data structure for its implementation.	* 1 point				
O Dequeue					
Queue					
○ tree					
Stack					

Queue structure is used in \_\_\_\_\_\* 1 point Depth First Search algorithm Polynomial addition Breadth First Search algorithm Recursion

What is the sequence of level order traversal in the following graph: \*

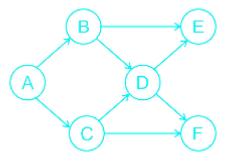
1 point



- A, D, G, J, C, E, I, F, B, H
- F, B, G, J, C, H, A, D, E, I
- F, B, H, A, D, G, J, C, E, I
- F, B, J, C, E, I, H, A, D, G

How many topological orderings for the given graph? \*

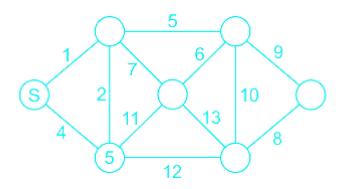
1 point



Consider the following graph.

\* 1 point

Assume node 'S' as the starting vertex for Prim's algorithm. Which of the following can be the correct order of edges in which they are added to construct MST?

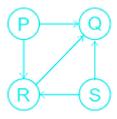


- 1,2,4,5,6,8,9
- 1,2,5,6,9,8
- 1,2,5,6,8,9
- None of the above

Consider the directed graph given below.

1 point

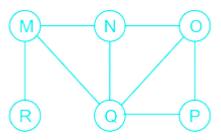
Which one of the following is TRUE?



- The graph does not have any topological ordering
- Both PQRS and SRQP are topological orderings
- Both PSRQ and SPRQ are topological orderings
- PSRQ is the only topological ordering

Clear selection

The Breadth First Search (BFS) algorithm has been implemented using the \* 1 point queue data structure. Which one of the following is a possible order of visiting the nodes in the graph below?



- MNOPQR
- **NQMPOR**
- QMNROP
- POQNMR

Match the above a	* 4 points			
	Greedy Method	Divide and conquer	Depth-first search	Greedy design
Dijkstra's Shortest Path	0	0	0	
Backtracking search on a graph	0	0	•	0
Prim's algorithm for minimum spanning tree	•	0	0	0
Merge sort	0	•	0	0

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