06/02/2023, 11:19 Virtual Labs



## <u>Computer Science and Engineering > Data Structures – 1 > Experiments</u>

## **Breadth First Search**

Dicadii i iist scarcii			
Choose difficulty:	Beginner	✓ Intermediate	✓ Advanced
1. Which of the following	g policies does a queue fo	ollow?	
o a: FIFO - First In, First Out	Explanation		
Ob: LIFO - Last In, First Out	Explanation		
○ c: FILO - First In, Last Out	Explanation		
Od: Random order Explar	nation		
2. Which of the following O a: Visiting all the edges of	g describes a standard gr the graph Explanation	aph traversal algorithm?	
b: Visiting all the vertices of	of the graph Explanation		
○ c: Detecting all the cycles	in the graph Explanation		
Od: None of the above Ex	kplanation		
•	n E signifies an edge betw data structures is represe	veen the two mentioned vert nted by the above graph?	ices
O c: Disconnected Graph	Explanation		
Od: Complete Graph Exp	lanation		
If we were to store this right(edges that appear	e, f] o, d], [b, e], [c, e], [c, f]] o E signifies an edge betwood graph's vertices in a que	veen the two mentioned vert ue in the order top to bottor appear first in the queue) wi for the queue and no deletio	m(parent to child) and left t th 'a' as the root, what inde
© c: 4 Explanation			
Od: 5 Explanation			

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