🏠 Course / Part 2: Graph Traversal, Routing, Queuing Structures / 3. Queuing Structures

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Practice questions: Queuing Structures

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What have you learnt so far?

3/3 points (ungraded)

1. When removing an element from a FIFO, we get:

○ the last element that was added

🔵 the first element that was added

✔

2. A DFS can be implemented using:

🔵 A LIFO to store the next unexplored vertices to be visited

○ A LIFO to store the list of all neighbors of the starting vertex

○ A FIFO to store the next unexplored vertices to be visited

✔

3. We add the elements 10, 25, 52, 40, 20, then 40 to a LIFO (in this order). What is the correct sequence (read from the left to the right) when performing four consecutive removals?

○ 10, 25, 52, 40 (first we pop 10)

🔵 40, 20, 40, 52 (first we pop 40)

○ 40, 20, 40, 10 (first we pop 40)

✔

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ℹ Answers are displayed within the problem

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