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General Questions

Practice Questions

Q1. What is the output of the following Python code for a binary tree traversal: 'preorder_traversal(root)'?

A. Left, Root, Right
B. Root, Left, Right
C. Left, Right, Root
D. Right, Left, Root

Solution: Preorder traversal visits the root node first, followed by the left subtree and then the right subtree, resulting in 'Root, Left, Right'.

Q2. What is the primary purpose of a binary tree?

A. To store data in a linear fashion
B. To facilitate quick searching and sorting
C. To represent hierarchical data
D. To implement stacks and queues

Solution: Binary trees are primarily used to represent hierarchical data structures, such as file systems or organizational structures.

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