Quiz

It's quiz time! Test yourself by solving these questions about binary trees.

What is the total number of edges from a particular node to its deepest descendant in a tree?
A) The depth of that particular node
B) The height of that particular node
C) The depth of the tree
O D) The height of the tree
Fill in the blank: A binary tree in which every node has either 0 or 2 children is called
A) a binary search tree
B) a complete binary tree

C) a full binary tree
O D) a balanced binary tree
The Level Order Traversal is a type of depth-first traversal.
O A) True
O B) False
<pre>tree = BinaryTree(12) tree.root.left = Node(32) tree.root.right = Node(37) tree.root.left.left = Node(24) tree.root.left.right = Node(5) tree.root.right.left = Node(100) tree.root.right.right = Node(75)</pre> <pre>print(tree.print_tree("postorder"))</pre>
A) 5-12-24-32-37-75-100
O B) ₁₂₋₃₂₋₂₄₋₅₋₃₇₋₁₀₀₋₇₅₋

C) 24-5-100-75-32-37-12-
O) 24-5-32-100-75-37-12-
What is the time complexity of the depth-first traversals of a tree containing n nodes?
\bigcirc A) $O(n)$
\bigcirc B) $O(logn)$
\bigcirc C) $O(nlogn)$
\bigcirc D) $O(n^2)$
CHECK ANSWERS