

Prompt	Scratchpad	Our Solution(s)	Video Explanation	Run Code
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Solution 1	Solution 2	Solution 3	Solution 4
<pre>1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved. 2 3 4 ▼ public class Program { 5     // Average case: when the tree is balanced 6     // O(nlog(n)) time   O(h) space - where n is the number of nodes in 7     // the Binary Tree and h is the height of the Binary Tree 8     ▼ public static int AllKindsOfNodeDepths(BinaryTree root) { 9         if (root == null) return 0; 10        return AllKindsOfNodeDepths(root.left) + AllKindsOfNodeDepths(root.right) + 11            nodeDepths(root, 0); 12    } 13 14 ▼ public static int nodeDepths(BinaryTree node, int depth) { 15     if (node == null) return 0; 16     return depth + nodeDepths(node.left, depth + 1) + nodeDepths(node.right, depth + 1); 17 } 18 19 ▼ public class BinaryTree { 20     public int value; 21     public BinaryTree left; 22     public BinaryTree right; 23 24 ▼     public BinaryTree(int value) { 25         this.value = value; 26         left = null; 27         right = null; 28     } 29 } 30 } 31</pre>			

