

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 // Average case: when the tree is balanced 4 // O(nlog(n)) time   O(h) space - where n is the number of nodes in 5 // the Binary Tree and h is the height of the Binary Tree 6 ▾ function allKindsOfNodeDepths(root) { 7     let sumOfAllDepths = 0; 8     let stack = [root]; 9     ▾ while (stack.length &gt; 0) { 10         const node = stack.pop(); 11         if (node === null) continue; 12         sumOfAllDepths += nodeDepths(node); 13         stack.push(node.left); 14         stack.push(node.right); 15     } 16     return sumOfAllDepths; 17 } 18 19 ▾ function nodeDepths(node, depth = 0) { 20     if (node === null) return 0; 21     return depth + nodeDepths(node.left, depth + 1) + nodeDepths(node.right, depth + 1); 22 } 23 24 // This is the class of the input binary tree. 25 ▾ class BinaryTree { 26     ▾ constructor(value) { 27         this.value = value; 28         this.left = null; 29         this.right = null; 30     } 31 } 32 33 exports.allKindsOfNodeDepths = allKindsOfNodeDepths; 34</pre>			

