AlgoExpert Quad Layout JavaScript 12px Sublime Monok

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

## Solution 1 Solution 2

```
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 1
 2
 3
     // Average case: when the tree is balanced
     // O(n) time \mid O(h) space - where n is the number of nodes in
     // the Binary Tree and h is the height of the Binary Tree
 6 ▼ function nodeDepths(root) {
       let sumOfDepths = 0;
 7
       const stack = [{node: root, depth: 0}];
 9 ▼ while (stack.length > 0) {
         const {node, depth} = stack.pop();
10
11
         if (node === null) continue;
12
         sumOfDepths += depth;
         stack.push({node: node.left, depth: depth + 1});
13
14
         stack.push({node: node.right, depth: depth + 1});
15
      }
16
      return sumOfDepths;
17
    }
18
19
    // This is the class of the input binary tree.
20 ▼ class BinaryTree {
21 ▼ constructor(value) {
         this.value = value;
22
         this.left = null;
23
24
         this.right = null;
25
      }
26
     }
27
     exports.nodeDepths = nodeDepths;
28
29
```