

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 // Average case: when the tree is balanced
4 // O(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 nodeDepths(root, depth = 0) {
7     if (root === null) return 0;
8     return depth + nodeDepths(root.left, depth + 1) + nodeDepths(root.right, depth + 1);
9 }
10
11 // This is the class of the input binary tree.
12 ▾ class BinaryTree {
13     ▾ constructor(value) {
14         this.value = value;
15         this.left = null;
16         this.right = null;
17     }
18 }
19
20 exports.nodeDepths = nodeDepths;
21
```

