

Question #27

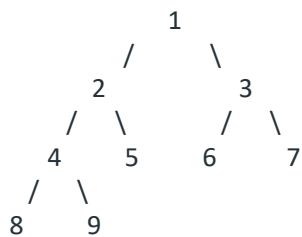
Difficulty :Easy Category :Tree

Sum of Node Depths

The distance between a node in a Binary Tree and the tree's root is called the node's depth. Write a function that takes in a Binary Tree and returns the sum of its nodes' depths. Each BinaryTree node has an integer value , a left child node, and a right child node. Children nodes can either be BinaryTree nodes themselves or None / null .

Sample Input

Tree. =



Sample Output

16

```
// The depth of the node with value 2 is 1.  
// The depth of the node with value 3 is 1.  
// The depth of the node with value 4 is 2.  
// The depth of the node with value 5 is 2.  
// Etc..  
// Summing all of these depths yields 16
```

Good luck!

Fatih