```swift
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class Program {
  class BinaryTree {
    var value: Int
    var left: BinaryTree?
    var right: BinaryTree?

    init(value: Int) {
      self.value = value
    }
  }

  // Average case: when the tree is balanced
  // O(n) time | O(h) space - where n is the number of nodes in
  // the Binary Tree and h is the height of the Binary Tree
  static func nodeDepths(_ root: BinaryTree?, _ depth: Int = 0) -> Int {
    if let tree = root {
      return depth + nodeDepths(tree.left, depth + 1) + nodeDepths(tree.right, depth + 1)
    }
    return 0
  }
}

```