AlgoExpert Quad Layout Go 12px Sublime Monokai 00:00:00

Run Code

Solution 1 Solution 2

Prompt

40

Scratchpad

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
 3 package main
 5 type BinaryTree struct {
     Value int
     Left *BinaryTree
     Right *BinaryTree
10 }
11
\ensuremath{\,^{13}} \ensuremath{\,^{\prime\prime}} and d is the depth (height) of the Binary Tree
14 func FlattenBinaryTree(root *BinaryTree) *BinaryTree {
15
     leftMost, _ := flattenTree(root)
     return leftMost
16
17 }
18
19 func flattenTree(node *BinaryTree) (leftMost, rightMost *BinaryTree) {
     leftMost = node
20
21
     if node.Left != nil {
22
       leftSubtreeLeftMost, leftSubtreeRightMost := flattenTree(node.Left)
        connectNodes(leftSubtreeRightMost, node)
23
24
       leftMost = leftSubtreeLeftMost
25
26
27
      rightMost = node
28
      if node.Right != nil {
29
       rightSubtreeLeftMost, rightSubtreeRightMost := flattenTree(node.Right)
30
       connectNodes(node, rightSubtreeLeftMost)
31
       rightMost = rightSubtreeRightMost
32
33
      return leftMost, rightMost
34 }
35
36 func connectNodes(left, right *BinaryTree) {
     left.Right = right
38
     right.Left = left
39 }
```

Our Solution(s) Video Explanation