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

Run Code Scratchpad Our Solution(s) Video Explanation

```
Solution 1 Solution 2
```

Prompt

```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 using System.Collections.Generic;
 5 public class Program {
     // O(n) time \mid O(n) space - where n is the number of nodes in the Binary Tree
      public static BinaryTree FlattenBinaryTree(BinaryTree root) {
        List<BinaryTree> inOrderNodes = getNodesInOrder(root, new List<BinaryTree>());
        for (int i = 0; i < inOrderNodes.Count - 1; i++) \{
          BinaryTree leftNode = inOrderNodes[i];
10
          BinaryTree rightNode = inOrderNodes[i + 1];
11
12
          leftNode.right = rightNode;
13
          rightNode.left = leftNode;
14
15
        return inOrderNodes[0];
16
17
      public static List<BinaryTree> getNodesInOrder(BinaryTree tree, List<BinaryTree> array) {
18
        if (tree != null) {
19
20
21
          getNodesInOrder(tree.left, array);
          array.Add(tree);
22
          getNodesInOrder(tree.right, array);
23
24
        return array;
25
26
27
28
29
      public class BinaryTree {
        public int value;
        public BinaryTree left = null;
30
31
        public BinaryTree right = null;
32
        public BinaryTree(int value) {
33
         this.value = value;
34
35
36 }
```