

Solution 1Solution 2

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1  # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3  class BinaryTree:
4      def __init__(self, value, left=None, right=None):
5          self.value = value
6          self.left = left
7          self.right = right
8
9
10 # O(n) time | O(n) space - where n is the number of nodes in the Binary Tree
11 def flattenBinaryTree(root):
12     inOrderNodes = getNodesInOrder(root, [])
13     for i in range(0, len(inOrderNodes) - 1):
14         leftNode = inOrderNodes[i]
15         rightNode = inOrderNodes[i + 1]
16         leftNode.right = rightNode
17         rightNode.left = leftNode
18     return inOrderNodes[0]
19
20
21 def getNodesInOrder(tree, array):
22     if tree is not None:
23         getNodesInOrder(tree.left, array)
24         array.append(tree)
25         getNodesInOrder(tree.right, array)
26     return array
27
```

