Solution 1

Run Code

Our Solution(s)

```
Run Code
```

Your Solutions

Solution 1 Solution 2 Solution 3

```
_{\rm 1} // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
    class Program {
        class BST
           var value: Int
            var left: BST?
           var right: BST?
            init(value: Int) {
                self.value = value
13
14
        // O(n) time \mid O(n) space - where n is the number of nodes in the Binary Tree
        func branchSums(root: BST) -> [Int] {
16
           var sums = [Int]()
            calculateBranchSums(node: root, runningSum: 0, sums: &sums)
17
18
            return sums
19
20
21
        func calculateBranchSums(node: BST?, runningSum: Int, sums: inout [Int]) {
22
            if let n = node {
                let newRunningSum = runningSum + n.value
24
25
                if n.left == nil, n.right == nil {}
                   sums.append(newRunningSum)
26
                    return
27
                calculateBranchSums(node: n.left, runningSum: newRunningSum, sums: &su
28
29
                calculateBranchSums(node: n.right, runningSum: newRunningSum, sums: &s
30
31
32 }
```

Custom Output

Raw Output

Submit Code

Run or submit code when you're ready.