

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     class BST {
5         var value: Int?
6         var left: BST?
7         var right: BST?
8
9         init(value: Int) {
10             self.value = value
11             left = nil
12             right = nil
13         }
14     }
15
16     // O(n) time | O(d) space
17     func validateBST(tree: BST) -> Bool {
18         var minimum = Int(Int32.min)
19         var maximum = Int(Int32.max)
20         return validateBSTHelper(tree: tree, minimum: &minimum,
21
22
23         func validateBSTHelper(tree: BST?, minimum: inout Int, maxim
24             if tree === nil {
25                 return true
26             }
27
28             if let tree = tree, let value = tree.value, value < mini
29                 return false
30             }
31
32             if var treeValue = tree?.value {
33                 let leftIsValid = validateBSTHelper(tree: tree?.left
```

Solution 1

Solution 2

Solution 3

```
1 class Program {
2     // This is an input class. Do not edit.
3     class BST {
4         var value: Int?
5         var left: BST?
6         var right: BST?
7
8         init(value: Int) {
9             self.value = value
10            left = nil
11            right = nil
12        }
13    }
14
15    func validateBST(tree: BST) -> Bool {
16        // Write your code here.
17        return false
18    }
19 }
20
```

Our Tests

Custom Output

Submit Code

Programming Language

Run or submit code when you're ready.