

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 #include <climits>
4 using namespace std;
5
6 class BST {
7 public:
8     int value;
9     BST *left;
10    BST *right;
11
12    BST(int val);
13    BST &insert(int val);
14 };
15
16 bool validateBst(BST *tree);
17 bool validateBstHelper(BST *tree, int minValue, int maxValue);
18
19 // O(n) time | O(d) space
20 bool validateBst(BST *tree) {
21     return validateBstHelper(tree, INT_MIN, INT_MAX);
22 }
23
24 bool validateBstHelper(BST *tree, int minValue, int maxValue) {
25     if (tree->value < minValue || tree->value >= maxValue) {
26         return false;
27     }
28     if (tree->left != NULL &&
29         !validateBstHelper(tree->left, minValue, tree->value)) {
30         return false;
31     }
32     if (tree->right != NULL &&
33         !validateBstHelper(tree->right, tree->value, maxValue)) {
34         return false;
35     }
36     return true;
37 }
38
```

Solution 1

Solution 2

Solution 3

```
1 class BST {
2 public:
3     int value;
4     BST *left;
5     BST *right;
6
7     BST(int val);
8     BST &insert(int val);
9 };
10
11 // O(n) time | O(d) space
12 bool validateBst(BST *tree) {
13     // Write your code here.
14     return false;
15 }
16
```

Custom Output

Raw Output

Submit Code

Run or submit code when you're ready.