Our Solution(s)   Run Code

Solution 1   Solution 2

```cpp
1  // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3  #include <vector>
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     value = val;
14     left = NULL;
15     right = NULL;
16   }
17
18   // Average: O(log(n)) time | O(1) space
19   // Worst: O(n) time | O(1) space
20   BST &insert(int val) {
21     BST *currentNode = this;
22     while (true) {
23       if (val < currentNode->value) {
24         if (currentNode->left == NULL) {
25           BST *newNode = new BST(val);
26           currentNode->left = newNode;
27           break;
28         } else {
29           currentNode = currentNode->left;
30         }
31       } else {
32         if (currentNode->right == NULL) {
33           BST *newNode = new BST(val);
```

Your Solutions   Run Code

Solution 1   Solution 2   Solution 3

```cpp
1  #include <vector>
2  using namespace std;
3
4  // Do not edit the class below except for
5  // the insert, contains, and remove methods.
6  // Feel free to add new properties and methods
7  // to the class.
8  class BST {
9  public:
10   int value;
11   BST *left;
12   BST *right;
13
14   BST(int val) {
15     value = val;
16     left = NULL;
17     right = NULL;
18   }
19
20   BST &insert(int val) {
21     // Write your code here.
22     // Do not edit the return statement of this method.
23     return *this;
24   }
25
26   bool contains(int val) {
27     // Write your code here.
28     return false;
29   }
30
31   BST &remove(int val) {
32     // Write your code here.
33     // Do not edit the return statement of this method.
```

Our Tests   Custom Output   Submit Code

Run or submit code when you're ready.