Our Solution(s) Run Code

Solution 1 Solution 2

```java
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class Program {
  static class BST {
    public int value;
    public BST left;
    public BST right;

    public BST(int value) {
      this.value = value;
    }

    // Average: O(log(n)) time | O(log(n)) space
    // Worst: O(n) time | O(n) space
    public BST insert(int value) {
      if (value < this.value) {
        if (left == null) {
          BST newBST = new BST(value);
          left = newBST;
        } else {
          left.insert(value);
        }
      } else {
        if (right == null) {
          BST newBST = new BST(value);
          right = newBST;
        } else {
          right.insert(value);
        }
      }
      return this;
    }

```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```java
class Program {
  static class BST {
    public int value;
    public BST left;
    public BST right;

    public BST(int value) {
      this.value = value;
    }

    public BST insert(int value) {
      // Write your code here.
      // Do not edit the return statement of this method.
      return this;
    }

    public boolean contains(int value) {
      // Write your code here.
      return false;
    }

    public BST remove(int value) {
      // Write your code here.
      // Do not edit the return statement of this method.
      return this;
    }
  }
}

```

Our Tests

Custom Output Submit Code

```
class Program{
  static Program.dll test1(),
  static Program.dll test2(),
  static Program.dll test3(),
  static Program.dll test4(),

  static {
    test1 = new Program.dll(),
    test1.insert1(5), insert1(6), insert1(7), insert1(2), insert1(66), 0
    test2 = new Program.dll(),
    test2.insert1(88), insert1(11), insert1(22) , remove(66),
    test3 = new Program.dll(),
    test3.insert1(5), insert1(7) , insert1(2) , remove(88),
    test4 = new Program.dll(),
    test4
        .insert1(5)
        .insert1(66)
        .insert1(88)
        .insert1(67)
        .insert1(99)
```

**Run or submit code when you're ready.**