32 33 **Workspace Layout**

Run Code

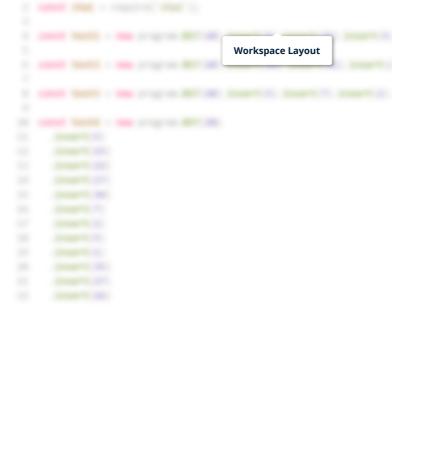
Solution 1

Your Solutions

Run Code

```
Solution 1
            Solution 2
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
 3 class BST {
     constructor(value) {
      this.value = value;
       this.left = null;
 6
 7
       this.right = null;
9
     // Average: O(log(n)) time | O(1) space
10
11
     // Worst: 0(n) time | 0(1) space
12
     insert(value) {
13
      let currentNode = this;
14
       while (true) {
15
         if (value < currentNode.value) {</pre>
16
           if (currentNode.left === null) {
17
             currentNode.left = new BST(value);
18
             break;
           } else {
19
20
             currentNode = currentNode.left;
           }
21
         } else {
          if (currentNode.right === null) {
23
            currentNode.right = new BST(value);
24
25
             break;
26
           } else {
27
             currentNode = currentNode.right;
28
29
30
31
        return this;
```

```
Solution 2
                          Solution 3
1 // Do not edit the class below except for
 2 // the insert, contains, and remove methods.
 \ensuremath{\mathtt{3}} // Feel free to add new properties and methods
4 // to the class.
 5 class BST {
     constructor(value) {
 6
       this.value = value;
        this.left = null;
9
       this.right = null;
10
11
12
      insert(value) {
13
        // Write your code here.
14
        // Do not edit the return statement of this method.
15
        return this;
16
17
18
      contains(value) {
19
       // Write your code here.
20
21
22
      remove(value) {
23
       // Write your code here.
       // Do not edit the return statement of this method.
24
25
        return this;
26
27
28
29 // Do not edit the line below.
30 exports.BST = BST;
31
```



Run or submit code when you're ready.