

Our Solution(s)Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 import java.util.*;
4
5 class Program {
6     // O(n) time | O(n) space
7     public static List<Integer> inOrderTraverse(BST tree, List<Integer> array) {
8         if (tree.left != null) {
9             inOrderTraverse(tree.left, array);
10        }
11        array.add(tree.value);
12        if (tree.right != null) {
13            inOrderTraverse(tree.right, array);
14        }
15        return array;
16    }
17
18    // O(n) time | O(n) space
19    public static List<Integer> preOrderTraverse(BST tree, List<Integer> array) {
20        array.add(tree.value);
21        if (tree.left != null) {
22            preOrderTraverse(tree.left, array);
23        }
24        if (tree.right != null) {
25            preOrderTraverse(tree.right, array);
26        }
27        return array;
28    }
29
30    // O(n) time | O(n) space
31    public static List<Integer> postOrderTraverse(BST tree, List<Integer> array) {
32        if (tree.left != null) {
33            postOrderTraverse(tree.left, array);
```

Your SolutionsRun Code

Solution 1Solution 2Solution 3

```
1 import java.util.List;
2
3 class Program {
4     public static List<Integer> inOrderTraverse(BST tree, List<Integer> array) {
5         // Write your code here.
6         return null;
7     }
8
9     public static List<Integer> preOrderTraverse(BST tree, List<Integer> array) {
10        // Write your code here.
11        return null;
12    }
13
14    public static List<Integer> postOrderTraverse(BST tree, List<Integer> array) {
15        // Write your code here.
16        return null;
17    }
18
19    static class BST {
20        public int value;
21        public BST left;
22        public BST right;
23
24        public BST(int value) {
25            this.value = value;
26        }
27    }
28 }
29
```

```
1 # Import ProgramTest()
2
3 # Import random module
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5 # Import random module
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7 # Import random module
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10 # Import ProgramTest()
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100 # Import random module
```

Run or submit code when you're ready.