

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     // Average: O(log(n)) time | O(log(n)) space
5     // Worst: O(n) time | O(n) space
6     public static int findClosestValueInBst(BST tree, int target) {
7         return findClosestValueInBst(tree, target, Double.MAX_VALUE);
8     }
9
10    public static int findClosestValueInBst(BST tree, int target, double closest) {
11        if (Math.abs(target - closest) > Math.abs(target - tree.value)) {
12            closest = tree.value;
13        }
14        if (target < tree.value && tree.left != null) {
15            return findClosestValueInBst(tree.left, target, closest);
16        } else if (target > tree.value && tree.right != null) {
17            return findClosestValueInBst(tree.right, target, closest);
18        } else {
19            return (int) closest;
20        }
21    }
22
23    static class BST {
24        public int value;
25        public BST left;
26        public BST right;
27
28        public BST(int value) {
29            this.value = value;
30        }
31    }
32 }
33
```

Solution 1

Solution 2

Solution 3

```
1 class Program {
2     public static int findClosestValueInBst(BST tree, int target) {
3         // Write your code here.
4         return -1;
5     }
6
7     static class BST {
8         public int value;
9         public BST left;
10        public BST right;
11
12        public BST(int value) {
13            this.value = value;
14        }
15    }
16 }
17
```

Our Tests

Custom Output

Submit Code

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Run or submit code when you're ready.