

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 // Average: O(log(n)) time | O(1) space
4 // Worst: O(n) time | O(1) space
5 function findClosestValueInBst(tree, target) {
6   return findClosestValueInBstHelper(tree, target, Infinity);
7 }
8
9 function findClosestValueInBstHelper(tree, target, closest) {
10  let currentNode = tree;
11  while (currentNode !== null) {
12    if (Math.abs(target - closest) > Math.abs(target - currentNode.value)) {
13      closest = currentNode.value;
14    }
15    if (target < currentNode.value) {
16      currentNode = currentNode.left;
17    } else if (target > currentNode.value) {
18      currentNode = currentNode.right;
19    } else {
20      break;
21    }
22  }
23  return closest;
24 }
25
26 exports.findClosestValueInBst = findClosestValueInBst;
27
```

Solution 1

Solution 2

Solution 3

```
1 function findClosestValueInBst(tree, target) {
2   // Write your code here.
3 }
4
5 // Do not edit the line below.
6 exports.findClosestValueInBst = findClosestValueInBst;
7
```

Run or submit code when you're ready.