Solution 1 Solution 2 Solution 3

Our Solution(s)

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Run Code

Your Solutions

Run Code

```
Solution 1 Solution 2
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   package main
   import "math"
7 type BST struct {
     Value int
9
   Left *BST
10
    Right *BST
11
12 }
13
14 // Average: O(log(n)) time | O(log(n)) space
15 // Worst: O(n) time | O(n) space
16 func (tree *BST) FindClosestValue(target int) int {
17
     return tree.findClosestValue(target, math.MaxInt32)
18 }
19
20 func (tree *BST) findClosestValue(target, closest int) int {
21
     if absdiff(target, closest) > absdiff(target, tree.Value) {
22
       closest = tree.Value
23
24
     if target < tree.Value && tree.Left != nil {</pre>
25
      return tree.Left.findClosestValue(target, closest)
26
     } else if target > tree.Value && tree.Right != nil {
27
       return tree.Right.findClosestValue(target, closest)
28
29
     return closest
30 }
31
32 func absdiff(a, b int) int {
   out := math.Abs(float64(a) - float64(b))
33
34
    return int(out)
35 }
36
```

```
package main

type BST struct {
    Value int

    Left *BST
    Right *BST

func (tree *BST) FindClosestValue(target int) int {
    // Write your code here.
    return -1
}
```

 Our Tests
 Custom Output
 Submit Code

Run or submit code when you're ready.

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