

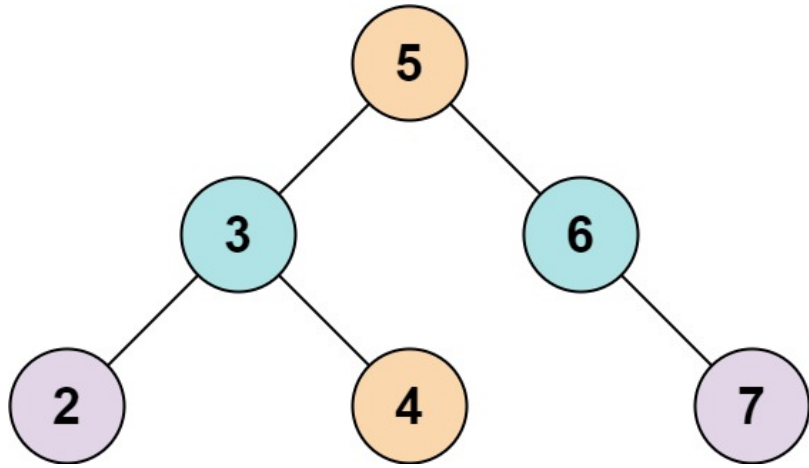
Description Solution Discuss (999+) Submissions

653. Two Sum IV - Input is a BST

Easy 4076 206 Add to List Share

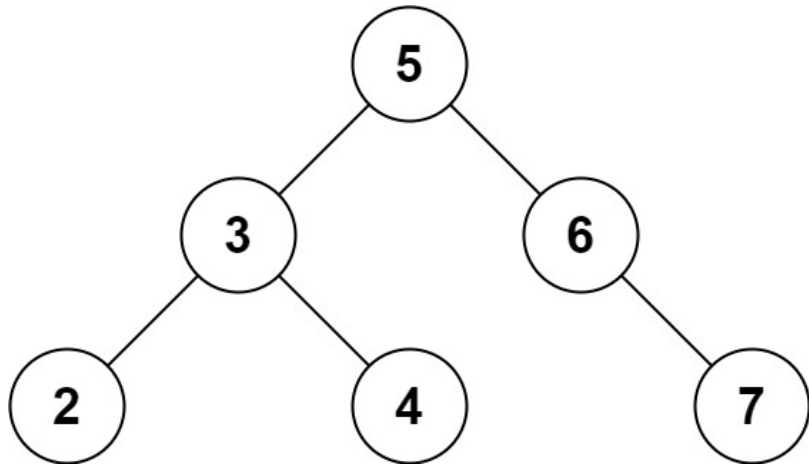
Given the `root` of a Binary Search Tree and a target number `k`, return `true` if there exist two elements in the BST such that their sum is equal to the given target.

Example 1:



Input: root = [5,3,6,2,4,null,7], k = 9
Output: true

Example 2:



Input: root = [5,3,6,2,4,null,7], k = 28
Output: false

Constraints:

- The number of nodes in the tree is in the range $[1, 10^4]$.
- $-10^4 \leq \text{Node.val} \leq 10^4$
- root is guaranteed to be a **valid** binary search tree.
- $-10^5 \leq k \leq 10^5$

Accepted 335,800 Submissions 567,860

Seen this question in a real interview before?

Yes No

Companies

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Autocomplete

```
1  /**
2   * Definition for a binary tree
3   * struct TreeNode {
4   *     int val;
5   *     TreeNode *left;
6   *     TreeNode *right;
7   *     TreeNode() : val(0),
8   *     left(nullptr), right(nullptr) {}
9   *     TreeNode(int x) : val(x),
10    *     left(nullptr), right(nullptr) {}
11    *     TreeNode(int x, TreeNode
12    *left, TreeNode *right) :
13    val(x), left(left), right(right)
14    {}
15    * };
16    */
17    class Solution {
18    public:
19        vector<int> v;
20        void helper(TreeNode* root){
21            if(root == NULL)
22                return;
23            helper(root->left);
24            v.push_back(root->val);
25            helper(root->right);
26        }
27        bool findTarget(TreeNode*
28        root, int k) {
29            helper(root);
30            int start = 0;
31            int end = v.size()-1;
32            while(end > start){
33                if(v[start] + v[end]
34                == k)
35                    return true;
36                else if(v[start] +
37                v[end] > k)
38                    end--;
39                else
40                    start++;
41            }
42            return false;
43        }
44    };
45    }
```

Testcase Run Code Result Debugger

Accepted Runtime: 0 ms

Your input [5,3,6,2,4,null,7]
9

Output true Diff

Expected true

Console Use Example Testcases

Problems

Pick One

< Prev

653/2346

Next >

Run Code

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