

Description

Solution

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Submissions

### 98. Validate Binary Search Tree

Medium

12770

1026

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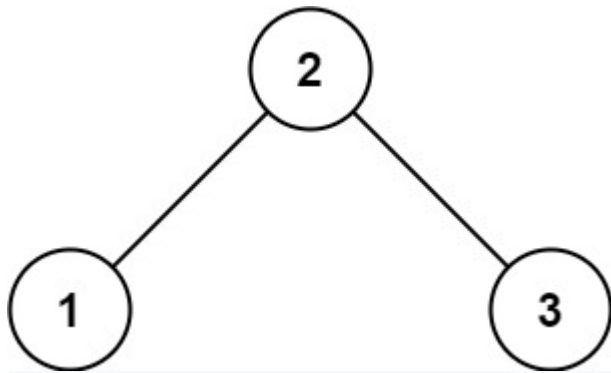
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Given the `root` of a binary tree, *determine if it is a valid binary search tree (BST)*.

A **valid BST** is defined as follows:

- The left subtree of a node contains only nodes with keys **less than** the node's key.
- The right subtree of a node contains only nodes with keys **greater than** the node's key.
- Both the left and right subtrees must also be binary search trees.

Example 1:



Input: root = [2,1,3]  
Output: true

Example 2:

JavaAutocomplete

```
1  /**
2   * Definition for a binary tree node.
3   * public class TreeNode {
4   *     int val;
5   *     TreeNode left;
6   *     TreeNode right;
7   *     TreeNode() {}
8   *     TreeNode(int val) { this.val = val; }
9   *     TreeNode(int val, TreeNode left, TreeNode right) {
10    *         this.val = val;
11    *         this.left = left;
12    *         this.right = right;
13    *     }
14    * }
15    */
16    class Solution {
17
18    private boolean isValidBST(TreeNode root, long left, long right){
19
20        if(root == null){
21            return true;
22        }else if(!(root.val > left && root.val < right)){
23            return false;
24        }
25
26        return isValidBST(root.left, left, root.val) &&
27        isValidBST(root.right, root.val, right);
28
29    public boolean isValidBST(TreeNode root) {
30        return isValidBST(root, Long.MIN_VALUE, Long.MAX_VALUE);
31    }
32 }
```

Your previous code was restored from your local storage. [Reset to default](#)

Testcase

Run Code Result

Debugger

Accepted

Runtime: 0 ms

Your input

[2,1,3]

Output

true

Diff

Expected

true