

Description

Solution

Discuss (999+)

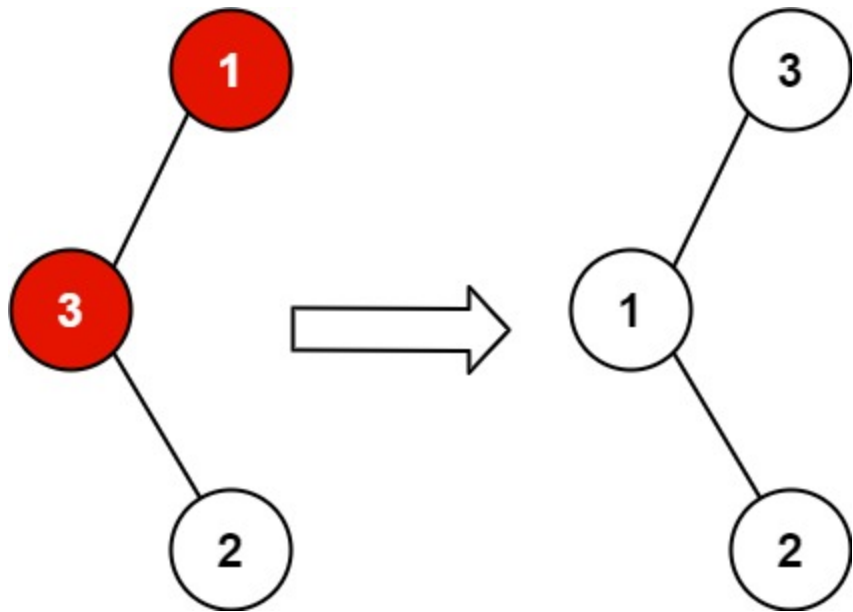
Submissions

99. Recover Binary Search Tree

Medium 4851 167 Add to List Share

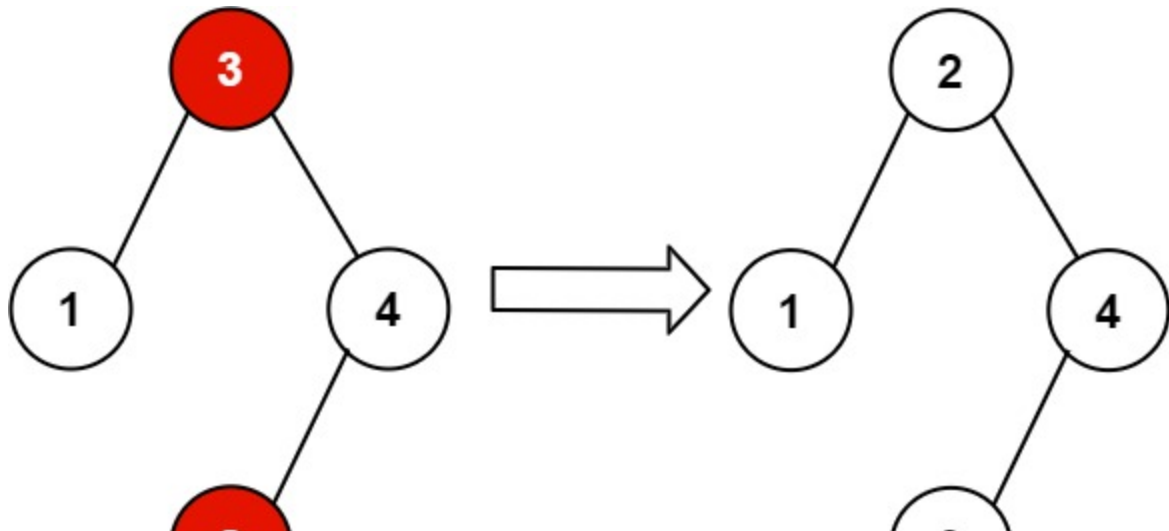
You are given the `root` of a binary search tree (BST), where the values of **exactly** two nodes of the tree were swapped by mistake. Recover the tree without changing its structure.

Example 1:



Input: root = [1,3,null,null,2]
Output: [3,1,null,null,2]
Explanation: 3 cannot be a left child of 1 because 3 > 1. Swapping 1 and 3 makes the BST valid.

Example 2:



Java

Autocomplete

```
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 TreeNode prev = null;
19     private TreeNode one = null;
20     private TreeNode two = null;
21
22     public void recoverTree(TreeNode root) {
23         inorder(root);
24         int temp = one.val;
25         one.val = two.val;
26         two.val = temp;
27     }
28
29     private void inorder(TreeNode curr){
30
31         if(curr == null)
32             return;
33
34         inorder(curr.left);
35
36         //Do the business logics here
37         if(prev != null && prev.val > curr.val){
38             if(one == null)
39                 one = prev;
40             two = curr;
41         }
42
43         prev = curr;
44
45         inorder(curr.right);
46     }
47 }
```

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