

# 99. Recover Binary Search Tree

Hard

1704

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Two elements of a binary search tree (BST) are swapped by mistake.

Recover the tree without changing its structure.

## Example 1:

**Input:** [1,3,null,null,2]

```
  1
 /
3
 \
  2
```

**Output:** [3,1,null,null,2]

```
  3
 /
1
 \
  2
```

## Example 2:

**Input:** [3,1,4,null,null,2]

```
  3
 / \
1  4
```

```
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     public void recoverTree(TreeNode root) {
18
19     }
20 }
```