

Description

Solution

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Submissions

538. Convert BST to Greater Tree

Easy

1982

118

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Given a Binary Search Tree (BST), convert it to a Greater Tree such that every key of the original BST is changed to the original key plus sum of all keys greater than the original key in BST.

Example:

Input:

The root of a Binary Search Tree like this:

5

/ \

2 13

Output:

The root of a Greater Tree like this:

18

/ \

20 13

**Note:** This question is the same as 1038: <https://leetcode.com/problems/binary-search-tree-to-greater-sum-tree/>

Accepted 122,941

Submissions 221,908

Seen this question in a real interview before?

Yes

No

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Java

Autocomplete

```
1  class TreeNode {
2      int val;
3      TreeNode left;
4      TreeNode right;
5      TreeNode() {}
6      *   TreeNode(int val) { this.val = val; }
7      *   TreeNode(int val, TreeNode left, TreeNode right) {
8      *       this.val = val;
9      *       this.left = left;
10     *       this.right = right;
11     *   }
12     * }
13     */
14
15 class Solution {
16     private int nodeWeight = 0;
17     public TreeNode convertBST(TreeNode tree) {
18         if (tree == null)
19             return null;
20
21         if (tree != null) {
22             convertBST(tree.right);
23             nodeWeight += tree.val;
24             tree.val = nodeWeight;
25             convertBST(tree.left);
26         }
27         return tree;
28     }
29 }
30
```

Testcase

Run Code Result

Debugger

Accepted

Runtime: 0 ms

Your input

[5,2,13]

Output

[18,20,13]

Expected

[18,20,13]

Diff