## 538. Convert BST to Greater Tree

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• Total Accepted: 4583

• Total Submissions: **8656** 

• Difficulty: Medium

• Contributors:love\_Fawn

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:



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```
/**
 * Definition for a binary tree node.
 * struct TreeNode {
      int val;
      TreeNode *left;
      TreeNode *right;
      TreeNode(int x) : val(x), left(NULL), right(NULL) {}
* };
*/
class Solution {
public:
   void inorderTree(TreeNode* root, vector<int> &res)
   {
       if(root==NULL) return;
       inorderTree(root->left,res);
       res.push_back(root->val);
       inorderTree(root->right,res);
   }
   void ChangeBST(TreeNode* root, vector<int> &treeval)
       if(root==NULL) return; int index = -1;
       ChangeBST(root->left,treeval);
       for(int i=0;i<treeval.size();i++)</pre>
       {
           if(root->val == treeval[i])
           {
               index = i;
               break;
           }
       }
       int ans = accumulate(treeval.begin()+index,treeval.end(),0);
       root->val = ans;
       ChangeBST(root->right,treeval);
   }
   TreeNode* convertBST(TreeNode* root) {
       vector<int> treeval;
       inorderTree(root, treeval);
       ChangeBST(root, treeval);
```

```
return root;
};
```