**Convert BST to Greater Tree**

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.

class Solution **{**

int sum**=**0**;**

public TreeNode convertBST**(**TreeNode root**)** **{**

getSum**(**root**);**

makeTree**(**root**);**

**return** root**;**

**}**

public void getSum**(**TreeNode node**){** //Make traversal to get total

**if(**node **==null)**

**return** **;**

getSum**(**node**.**left**);**

sum **+=** node**.**val**;**

getSum**(**node**.**right**);**

**}**

public void makeTree**(**TreeNode node**){** //Make IO trversal to get the new Tree

**if(**node**==null)**

**return;**

makeTree**(**node**.**left**);**

int aux **=** node**.**val**;**

node**.**val**=**sum**;**

sum **-=** aux**;**

makeTree**(**node**.**right**);**

**}**

**}**