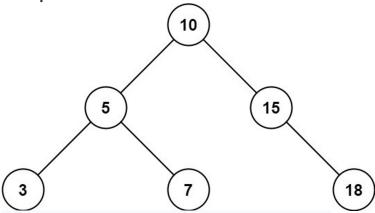
938. Range Sum of BST

Easy

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Given the root node of a binary search tree and two integers low and high, return the sum of values of all nodes with a value in the **inclusive** range [low, high].

Example 1:

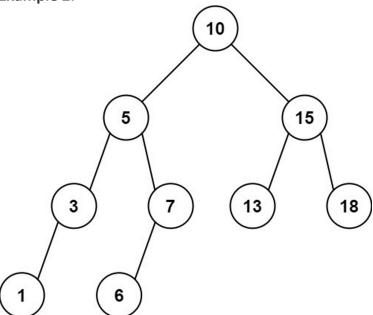


Input: root = [10,5,15,3,7,null,18], low = 7, high = 15

Output: 32

Explanation: Nodes 7, 10, and 15 are in the range [7, 15]. 7 + 10 + 15 = 32.

Example 2:



Input: root = [10,5,15,3,7,13,18,1,null,6], low = 6, high = 10

Output: 23

Explanation: Nodes 6, 7, and 10 are in the range [6, 10]. 6 + 7 + 10 = 23.

Constraints:

- The number of nodes in the tree is in the range [1, 2 * 104].
- 1 <= Node.val <= 105
- 1 <= low <= high <= 105
- All Node.val are unique.

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From <https://leetcode.com/problems/range-sum-of-bst/>

BASIC SOLUTION

```
/**
* Definition for a binary tree node.
* public class TreeNode {
* int val;
* TreeNode left;
* TreeNode right;
* TreeNode() {}
* TreeNode(int val) { this.val = val; }
* TreeNode(int val, TreeNode left, TreeNode right) {
    this.val = val;
     this.left = left;
     this.right = right;
* }
*/
class Solution {
  int sum =0;
  public int rangeSumBST(TreeNode root, int low, int high) {
getSum(root,low,high);
    return sum;
  }
  public void getSum(TreeNode root, int low, int high) {
        if (root==null)
       return;
    getSum(root.left,low,high);
```

```
if (root.val>=low && root.val<=high) {</pre>
      sum=sum+root.val;
      System.out.println(root.val+" Sum =: "+sum);
    }
    getSum(root.right,low,high);
    return;
 }
}
                           BEST SOLUTION
    * Definition for a binary tree node.
   * public class TreeNode {
    * int val;
       TreeNode left;
    * TreeNode right;
      TreeNode() {}
   * TreeNode(int val) { this.val = val; }
       TreeNode(int val, TreeNode left, TreeNode right) {
         this.val = val;
         this.left = left;
         this.right = right;
      }
    * }
   class Solution {
     public int rangeSumBST(TreeNode root, int I, int h) {
        if(root==null)
          return 0;
         if (root.val<! )</pre>
           return rangeSumBST(root.right,l,h);
           if( root.val>h) {
           return rangeSumBST(root.left,I,h);
         }
```

```
return root.val+ rangeSumBST(root.left,l,h)+ rangeSumBST(root.right,l,h);
}
```