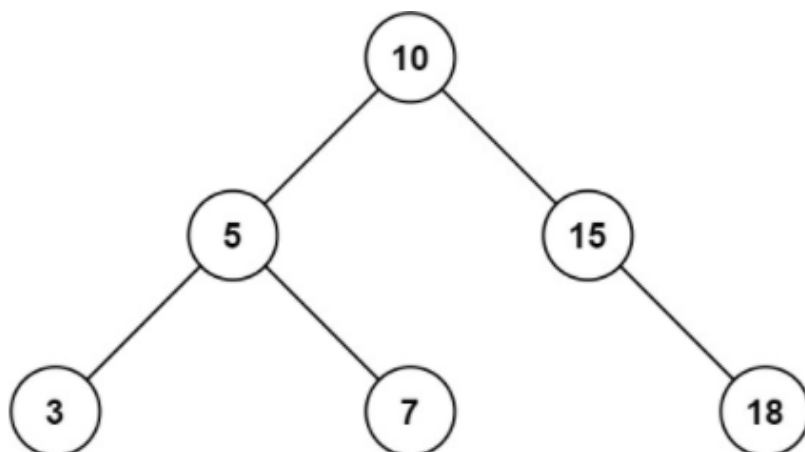


二叉搜索树的范围和

给定二叉搜索树的根结点 `root`，返回值位于范围 `[low, high]` 之间的所有结点的值的和。

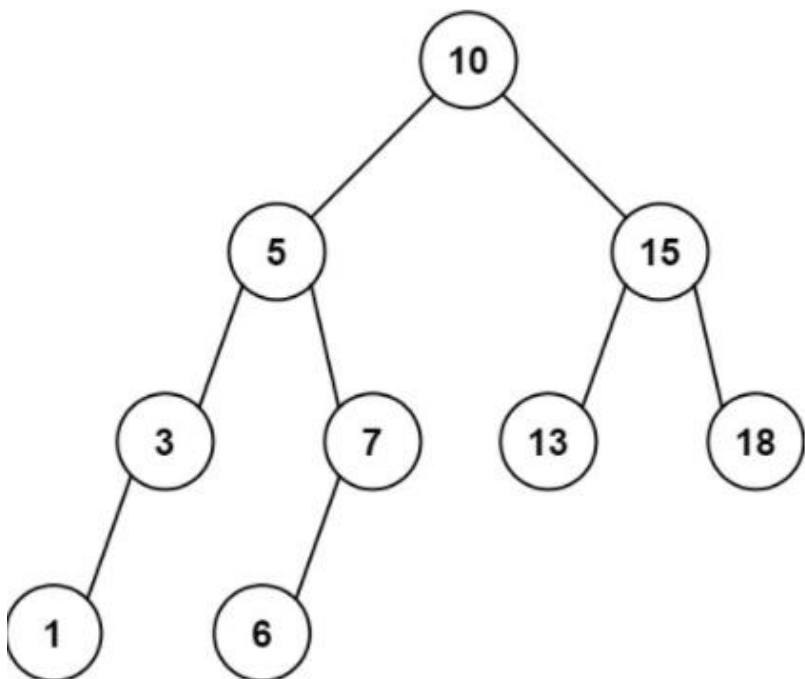
示例 1:



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

输出: 32

示例 2:



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

输出: 23

```
/**
```

```

* Definition for a binary tree node.
* struct TreeNode {
*     int val;
*     TreeNode *left;
*     TreeNode *right;
*     TreeNode() : val(0), left(nullptr), right(nullptr) {}
*     TreeNode(int x) : val(x), left(nullptr), right(nullptr) {}
*     TreeNode(int x, TreeNode *left, TreeNode *right) : val(x), left(left
), right(right) {}
* };
*/
class Solution {
public:
    void inordertravel(TreeNode* root,vector<int>& res)
    {
        if(root==nullptr)
        {
            return;
        }
        inordertravel(root->left,res);
        res.push_back(root->val);
        inordertravel(root->right,res);
    }
    int rangeSumBST(TreeNode* root, int low, int high) {
        if(root==nullptr)
            return 0;
        vector<int> res;
        inordertravel(root,res);
        int sum=0;
        for(int i=0;i<res.size();i++)
        {
            if(res[i]>=low&&res[i]<=high)
            {
                sum+=res[i];
            }
        }
        return sum;
    }
};

```