1373. Maximum Sum BST in Binary Tree

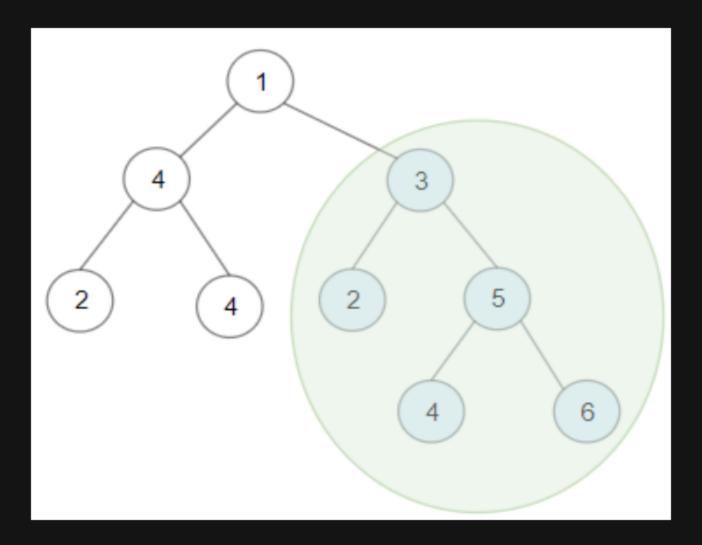
Description

Given a binary tree root, return the maximum sum of all keys of any sub-tree which is also a Binary Search Tree (BST).

Assume a BST is defined as follows:

- The left subtree of a node contains only nodes with keys less than the node's key.
- The right subtree of a node contains only nodes with keys greater than the node's key.
- Both the left and right subtrees must also be binary search trees.

Example 1:

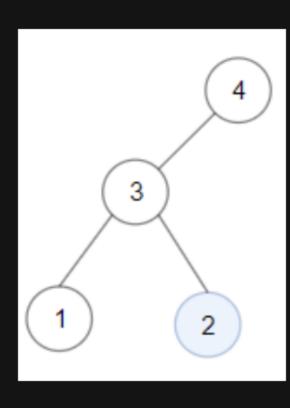


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Input: root = [1,4,3,2,4,2,5,null,null,null,null,null,null,4,6]
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Output: 20

Explanation: Maximum sum in a valid Binary search tree is obtained in root node with key equal to 3.

Example 2:



Input: root = [4,3,null,1,2]

Output: 2

Explanation: Maximum sum in a valid Binary search tree is obtained in a single root node with key equal to 2.

Example 3:

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Input: root = [-4, -2, -5]
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Output: 0

Explanation: All values are negatives. Return an empty BST.

Constraints:

- The number of nodes in the tree is in the range [1, 4 * 10 4].
- -4 * 10 ⁴ <= Node.val <= 4 * 10 ⁴