1382. Balance a Binary Search Tree

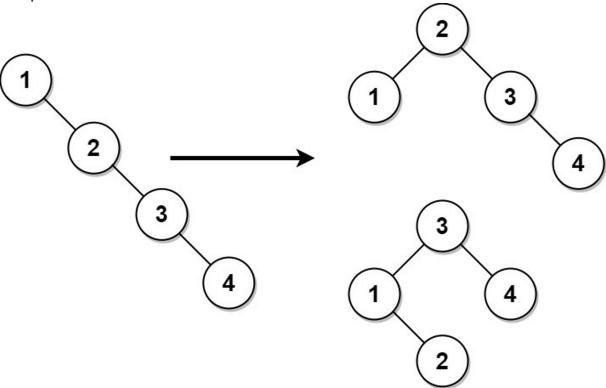
Medium

166154Add to ListShare

Given the root of a binary search tree, return a **balanced** binary search tree with the same node values. If there is more than one answer, return **any of them**.

A binary search tree is **balanced** if the depth of the two subtrees of every node never differs by more than 1.

Example 1:

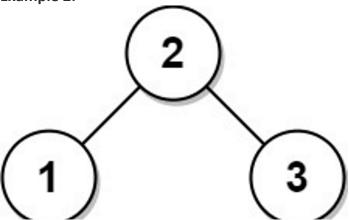


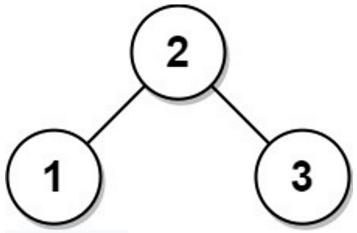
Input: root = [1,null,2,null,3,null,4,null,null]

Output: [2,1,3,null,null,null,4]

Explanation: This is not the only correct answer, [3,1,4,null,2] is also correct.

Example 2:





Input: root = [2,1,3] **Output:** [2,1,3]

Constraints:

- The number of nodes in the tree is in the range [1, 104].
- 1 <= Node.val <= 105

From < https://leetcode.com/problems/balance-a-binary-search-tree/>