

Description

Solution

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Java

Autocomplete

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669. Trim a Binary Search Tree

Medium 3813 225 Add to List Share

Given the `root` of a binary search tree and the lowest and highest boundaries as `low` and `high`, trim the tree so that all its elements lies in `[low, high]`. Trimming the tree should **not** change the relative structure of the elements that will remain in the tree (i.e., any node's descendant should remain a descendant). It can be proven that there is a **unique answer**.

Return the *root of the trimmed binary search tree*. Note that the root may change depending on the given bounds.

Example 1:

1

0

2

→

1

2

Input: root = [1,0,2], low = 1, high = 2

Output: [1,null,2]

Example 2:

3

0

4

2

1

→

3

2

1

Input: root = [3,0,4,null,2,null,null,1], low = 1, high = 3

Output: [3,2,null,1]

Constraints:

- The number of nodes in the tree in the range `[1, 104]`.
- `0 <= Node.val <= 104`
- The value of each node in the tree is **unique**.
- `root` is guaranteed to be a valid binary search tree.
- `0 <= low <= high <= 104`

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Yes

No

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```
/**
 * 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 TreeNode trimBST(TreeNode root, int low, int high) {
    }
}
```