

Description

Editorial

Solutions (1.7K)

Submissions

669. Trim a Binary Search Tree

Medium

5.5K

248

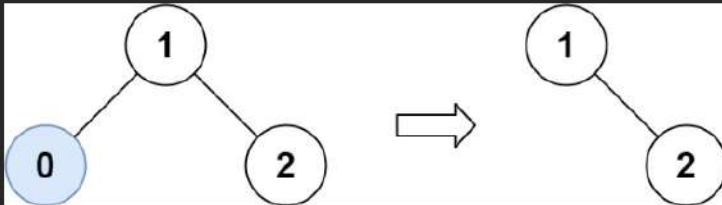


Companies

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.

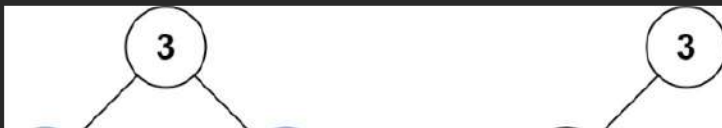
Example 1:



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

Output: `[1,null,2]`

Example 2:



Java

Auto

```
16 class Solution {
17     public TreeNode trimBST(TreeNode root, int low, int high) {
18         Queue queue = new LinkedList<>();
19         queue.offer(root);
20         boolean found = false;
21         while (!queue.isEmpty()) {
22             TreeNode curr = queue.poll();
23             if (low <= curr.val && curr.val <= high) {
24                 root = curr;
25                 found = true;
26                 break;
27             } else {
28                 if (curr.left != null) queue.offer(curr.left);
29                 if (curr.right != null) queue.offer(curr.right);
30             }
31         }
32         if (!found) return low <= root.val && root.val <= high ? root : null;
33         trimBSTDFS(root, low, high);
34     }
35 }
```

Testcase

Result

Accepted

Runtime: 0 ms

Case 1

Case 2

Input

root =

`[1,0,2]`

low =

1

high =

Console



Run

Submit

Description

Editorial

Solutions (1K)

Submissions

673. Number of Longest Increasing Subsequence

Medium

5.9K

238



Companies

Given an integer array `nums`, return the number of longest increasing subsequences.

Notice that the sequence has to be **strictly** increasing.

Example 1:

Input: `nums = [1,3,5,4,7]`

Output: 2

Explanation: The two longest increasing subsequences are [1, 3, 4, 7] and [1, 3, 5, 7].

Example 2:

Input: `nums = [2,2,2,2,2]`

Output: 5

Explanation: The length of the longest increasing subsequence is 1, and there are 5 increasing subsequences of length 1, so output 5.

Constraints:

- $1 \leq \text{nums.length} \leq 2000$
- $-10^6 \leq \text{nums}[i] \leq 10^6$

i Java

Auto

```
1 class Solution {
2     public int findNumberOfLIS(int[] nums) {
3         int n = nums.length;
4         int[] lis = new int[n];
5         int[] fq = new int[n];
6         lis[0] = 1;
7         fq[0] = 1;
8         int lo = 1;
9
10        for (int i = 1; i < nums.length; i++) {
11            int mx = 0;
12            int c = 1;
13            for (int j = 0; j < i; j++) {
14                if (nums[j] < nums[i]) {
15                    if (lis[j] > mx) {
16                        mx = lis[j];
17                        c = fq[j];
18                    } else if (lis[j] == mx) {
```

Testcase

Result

Accepted

Runtime: 0 ms

• Case 1

• Case 2

Input

nums =
[1,3,5,4,7]

Output

2

Console



Run

Submit