

Description

Editorial

Solutions (7.1K)

Submissions

101. Symmetric Tree

Easy

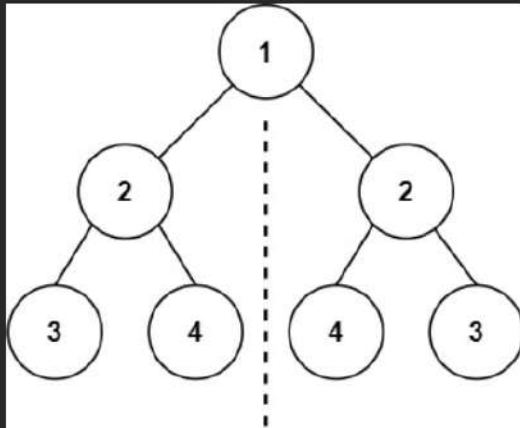
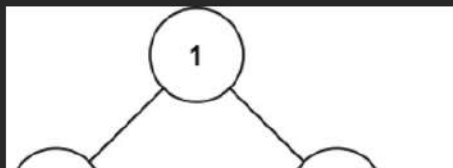
13.7K

310



Companies

Given the `root` of a binary tree, check whether it is a mirror of itself (i.e., symmetric around its center).

Example 1:**Input:** root = [1,2,2,3,4,4,3]**Output:** true**Example 2:**

i Java

Auto

```
14 }
15 */
16 class Solution {
17     public boolean isSymmetric(TreeNode root) {
18         if (root == null) {
19             return true;
20         }
21         return isMirror(root.left, root.right);
22     }
23
24     private boolean isMirror(TreeNode node1, TreeNode node2) {
25         if (node1 == null && node2 == null) {
26             return true;
27         }
28         if (node1 == null || node2 == null) {
29             return false;
30         }
31         return node1.val == node2.val && isMirror(node1.left, node2.right) && isMirror(node1.right,
node2.left);
32     }
33 }
```

Testcase

Result

Accepted

Runtime: 0 ms

Case 1

Case 2

Input

root =

[1,2,2,3,4,4,3]

Output

true

Expected

Console



Run

Submit

1027. Longest Arithmetic Subsequence

Medium

3.5K

156



Companies

Given an array `nums` of integers, return *the length of the longest arithmetic subsequence in* `nums`.

Note that:

- A **subsequence** is an array that can be derived from another array by deleting some or no elements without changing the order of the remaining elements.
- A sequence `seq` is arithmetic if `seq[i + 1] - seq[i]` are all the same value (for `0 <= i < seq.length - 1`).

Example 1:

Input: `nums = [3,6,9,12]`

Output: 4

Explanation: The whole array is an arithmetic sequence with steps of length = 3.

Example 2:

Input: `nums = [9,4,7,2,10]`

Output: 3

Explanation: The longest arithmetic subsequence is `[4,7,10]`.

Example 3:

Input: `nums = [20,1,15,3,10,5,8]`

Output: 4

Explanation: The longest arithmetic subsequence is `[20,15,10,5]`.

```
1 class Solution {
2     public int longestArithSeqLength(int[] nums) {
3         int n = nums.length;
4         if (n <= 2)
5             return n;
6
7         int longest = 2;
8         Map<Integer, Integer>[] dp = new HashMap[n];
9
10        for (int i = 0; i < n; i++) {
11            dp[i] = new HashMap<>();
12            for (int j = 0; j < i; j++) {
13                int diff = nums[i] - nums[j];
14                dp[i].put(diff, dp[j].getOrDefault(diff, 1) + 1);
15                longest = Math.max(longest, dp[i].get(diff));
16            }
17        }
18
19        return longest;
20    }
21 }
```

Accepted Runtime: 0 ms

Case 1

Case 2

Case 3

Input

`nums =`

`[3,6,9,12]`

Output

4

Expected

Console



Run

Submit