

1146. Snapshot Array

Hint ⓘ

Medium



2.9K

380



Companies

Implement a SnapshotArray that supports the following interface:

- `SnapshotArray(int length)` initializes an array-like data structure with the given length. Initially, each element equals 0.
- `void set(index, val)` sets the element at the given `index` to be equal to `val`.
- `int snap()` takes a snapshot of the array and returns the `snap_id`: the total number of times we called `snap()` minus 1.
- `int get(index, snap_id)` returns the value at the given `index`, at the time we took the snapshot with the given `snap_id`.

Example 1:

Input: ["SnapshotArray","set","snap","set","get"]
[[3],[0,5],[],[0,6],[0,0]]

Output: [null,null,0,null,5]

Explanation:

SnapshotArray snapshotArr = new SnapshotArray(3); // set the length to be 3

snapshotArr.set(0,5); // Set array[0] = 5

snapshotArr.snap(); // Take a snapshot, return snap_id = 0

snapshotArr.set(0,6);

snapshotArr.get(0,0); // Get the value of array[0] with snap_id = 0, return 5

Constraints:

- $1 \leq \text{length} \leq 5 \times 10^4$

```
1 class SnapshotArray {
2     TreeMap<Integer, Integer>[] Tm;
3     int snap_id = 0;
4     public SnapshotArray(int length) {
5         Tm = new TreeMap[length];
6         for (int i = 0; i < length; i++) {
7             Tm[i] = new TreeMap<Integer, Integer>();
8             Tm[i].put(0, 0);
9         }
10    }
11
12    public void set(int index, int val) {
13        Tm[index].put(snap_id, val);
```

Testcase Result

Accepted Runtime: 0 ms

Case 1

Input

["SnapshotArray","set","snap","set","get"]

[[3],[0,5],[],[0,6],[0,0]]

Output

[null,null,0,null,5]

Expected

Console



Run

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Description

Editorial

Solutions (4.4K)

Submissions

111. Minimum Depth of Binary Tree

Easy

5.8K

1.1K



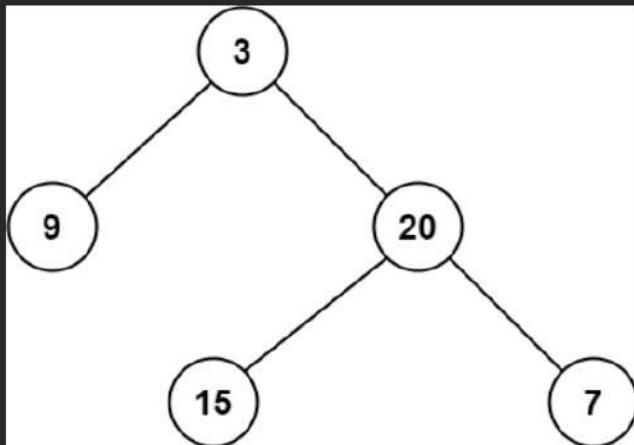
Companies

Given a binary tree, find its minimum depth.

The minimum depth is the number of nodes along the shortest path from the root node down to the nearest leaf node.

Note: A leaf is a node with no children.

Example 1:



Input: root = [3,9,20,null,null,15,7]

Output: 2

Example 2:

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

Java

Auto

```
12 *         this.right = right;
13 *     }
14 * }
15 */
16 class Solution {
17     public int minDepth(TreeNode root)
18     {
19         if(root == null) return 0;
20
21         int leftDepth = minDepth(root.left);
22         int rightDepth = minDepth(root.right);
23
24         if(root.left == null && root.right == null ) return 1;
```

Testcase

Result

Accepted Runtime: 0 ms

Case 1

Case 2

Input

root =
[3,9,20,null,null,15,7]

Output

2

Expected

2

Console



Run

Submit