Description | Accepted | Editorial | Solutions | Submissions

1161. Maximum Level Sum of a Binary Tree

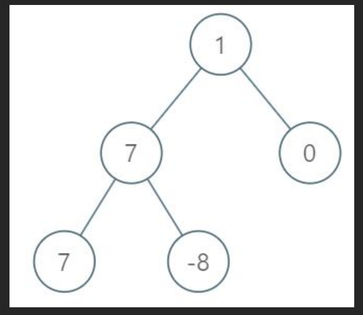
Solved

Medium | Topics | Companies | Hint

Given the `root` of a binary tree, the level of its root is `1`, the level of its children is `2`, and so on.

Return the **smallest** level `x` such that the sum of all the values of nodes at level `x` is **maximal**.

Example 1:




```
Input: root = [1,7,0,7,-8,null,null]
Output: 2
Explanation:
Level 1 sum = 1.
Level 2 sum = 7 + 0 = 7.
Level 3 sum = 7 + -8 = -1.
So we return the level with the maximum sum which is level 2.
```

Example 2:

3.6K | 75 | 19 Online

Code

Python3 | Auto

```
13
14          while queue:
15              level_sum = 0
16              for _ in range(len(queue)):
17                  node = queue.pop(0)
18                  if node:
19                      level_sum += node.val
20                      if node.left:
21                          queue.append(node.left)
22                      if node.right:
23                          queue.append(node.right)
24
25
26              if level_sum > max_sum:
27                  max_sum = level_sum
28                  max_level = current_level
29              current_level += 1
```

Ln 34, Col 9 | Saved

Run | Submit

Testcase | Test Result

Accepted Runtime: 0 ms

Case 1 | Case 2

Input

root =
[1,7,0,7,-8,null,null]

Output