958. Check Completeness of a Binary Tree

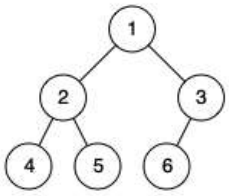
Medium 3.8K 49

Companies

Given the `root` of a binary tree, determine if it is a *complete binary tree*.

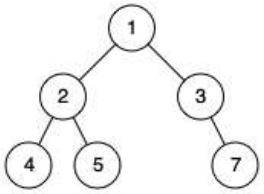
In a **complete binary tree**, every level, except possibly the last, is completely filled, and all nodes in the last level are as far left as possible. It can have between `1` and `2^h` nodes inclusive at the last level `h`.

Example 1:



Input: root = [1,2,3,4,5,6]
Output: true
Explanation: Every level before the last is full (ie. levels with node-values {1} and {2, 3}), and all nodes in the last level ({4, 5, 6}) are as far left as possible.

Example 2:



Input: root = [1,2,3,4,5,null,7]
Output: false
Explanation: The node with value 7 isn't as far left as possible.

Constraints:

- The number of nodes in the tree is in the range `[1, 100]`.
- `1 <= Node.val <= 1000`

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Seen this question in a real interview before? 1/4

Yes No

Discussion (31)

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