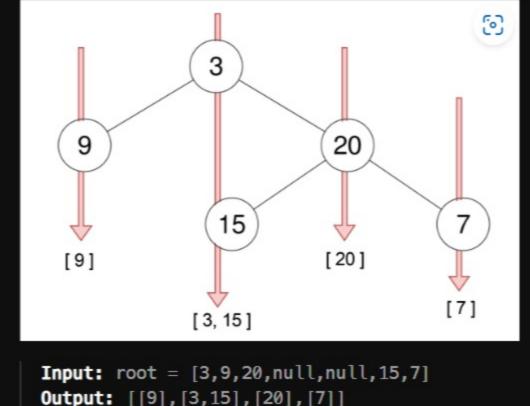
314. Binary Tree Vertical Order Traversal Premium

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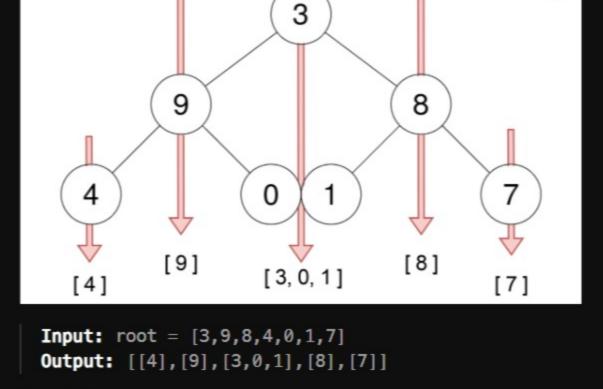
Given the root of a binary tree, return **the vertical order traversal** of its nodes' values. (i.e., from top to bottom, column by column).

If two nodes are in the same row and column, the order should be from **left to right**.

Example 1:



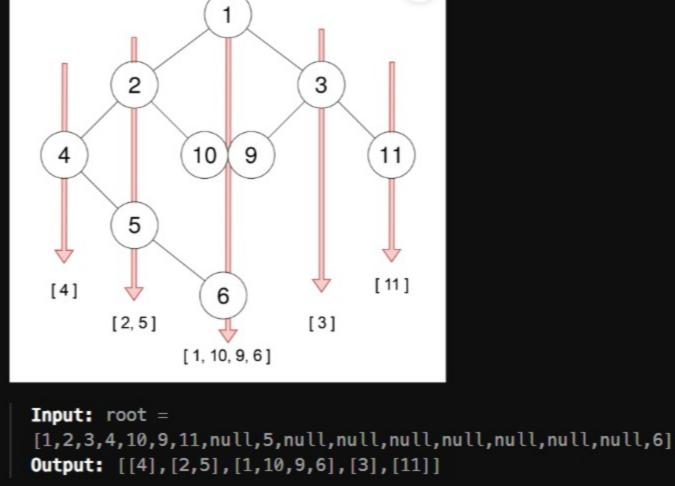
Example 2:



(S)

(S

Example 3:



Constraints:

The number of nodes in the tree is in the range [0, 100].

Topics

Seen this question in a real interview before? 1/5 Yes No

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Hash Table Tree

0 - 6 months

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Hint 1

-100 <= Node.val <= 100

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Binary Tree

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right node, its column should be col + 1.

the node and its column.

Snap (2)

Ø Hint 2 When you traverse a node, store its value in the column index. For example, the root's value should be stored at index 0.

Do BFS from the root. Let the root be at column 0. In the BFS, keep in the queue

Hint 3 If the node has a left node, it column should be col - 1. Similarly, if the node has a

Hint 4

At the end, check the minimum and maximum col and output their values.

Binary Tree Level Order Traversal

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Discussion (43)