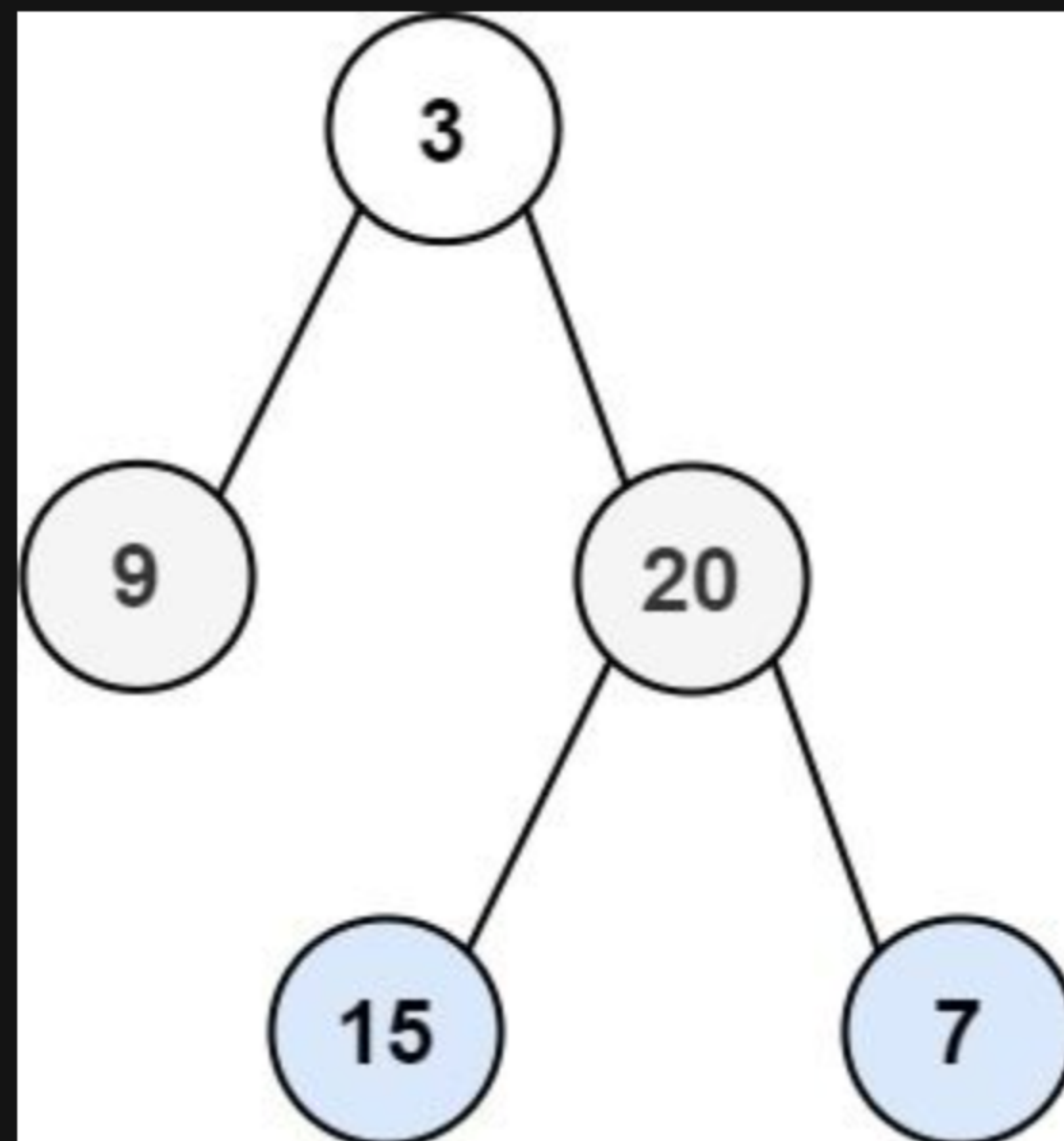


# 103. Binary Tree Zigzag Level Order Traversal

## Description

Given the `root` of a binary tree, return *the zigzag level order traversal of its nodes' values*. (i.e., from left to right, then right to left for the next level and alternate between).

### Example 1:



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

**Output:** `[[3],[20,9],[15,7]]`

### Example 2:

**Input:** `root = [1]`

**Output:** `[[1]]`

### Example 3:

**Input:** `root = []`

**Output:** `[]`

### Constraints:

- The number of nodes in the tree is in the range `[0, 2000]`.
- `-100 <= Node.val <= 100`

