

### Question #31 (leetcode #103)

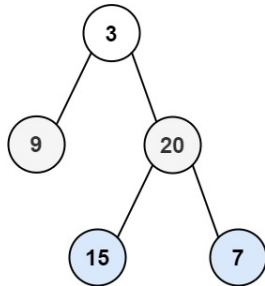
#### Binary Tree Zigzag Level Order Traversal

Difficulty :Medium Category :Tree

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].
- $-100 \leq \text{Node.val} \leq 100$

#### **Solution Format:**

```
class Solution {  
    public List<List<Integer>> zigzagLevelOrder(TreeNode root) {  
  
    }  
}
```

**Good luck!**

Fatih