Binary Tree Zigzag Level Order Traversal

This problem is remiler to level order traversal, but with a traist. the order alternates between left-to-right and right-to left at each lovel.

Approach: BFS with Direction Flog:

1. Perform a mormal BFS resing a queue.

2. For each level:

there nodes in a temporary vector.

If the current level wood to be seversed (zigzag), severse the vector before adding it to the result.

3. Alternate the dérection for the next level eving a boolean flog.

Complexity:

· Time: O(u) - viset each mode exactly ance. · Space: O(u) - queue + result stolage.