

Average of Levels in Binary Tree

For this problem we compute the average of node values for each level.

Approach: BFS Levelorder Traversal

1. Use a queue to traverse nodes level by level.
2. For each level:
 - Count nodes at this level.
 - Compute sum of values.
 - Append sum / count to result.

Complexity:

- Time: $O(n)$ - visit each node once.
- Space: $O(n)$ - queue may hold one level of nodes.