1. **Diagonal Traversal of a tree**

**class Tree {**

**public ArrayList<Integer> diagonal(Node root) {**

**// add your code here.**

**ArrayList<Integer> ans = new ArrayList<>();**

**if (root == null) return ans;**

**Queue<Node> q = new LinkedList<>();**

**q.add(root);**

**while (!q.isEmpty()) {**

**Node temp = q.poll();**

**while (temp != null) {**

**ans.add(temp.data);**

**if (temp.left != null) q.add(temp.left);**

**temp = temp.right;**

**}**

**}**

**return ans;**

**}**

**}**