102. Binary Tree Level Order Traversal

}

```
Description
                        Hints
                                  Discuss
                                                                  Solution
      ⊅ Pick One
    Given a binary tree, return the level order traversal of its nodes' values. (ie, from left to right, level by level).
     Given binary tree [3,9,20,null,null,15,7],
        / \
       9 20
         / \
        15 7
    return its level order traversal as:
      [
       [3],
       [9,20],
       [15,7]
      ]
* 树的层次遍历,用一个queue存储每层元素即可
public class L102 {
    public class TreeNode{
        int val;
        TreeNode left;
        TreeNode right;
        public TreeNode(int x) {
            val = x;
    public List<List<Integer>> levelOrder(TreeNode root) {
        List<List<Integer>> list = new ArrayList<List<Integer>>();
        if(root == null)
            return list;
        Queue<TreeNode> queue = new LinkedList<>();
        queue.add(root);
        while(queue.size() != 0) {
            List<Integer> alist = new ArrayList<>();
            for(TreeNode child : queue)
                 alist.add(child.val);
            list.add(alist);
            Queue<TreeNode> queue2 = queue;
            queue = new LinkedList<TreeNode>();
            for(TreeNode child : queue2) {
                 if(child.left != null)
                     queue.add(child.left);
                 if(child.right != null)
                     queue.add(child.right);
            }
        return list;
    }
```