

层序遍历

常见题型：

1. 从上到下打印二叉树

```
# Definition for a binary tree node.
# class TreeNode:
#     def __init__(self, x):
#         self.val = x
#         self.left = None
#         self.right = None

class Solution:
    from collections import deque
    def levelOrder(self, root: TreeNode) -> List[int]:
        if not root:
            return []
        queue=deque()
        queue.append(root)
        res=[]
        while len(queue):
            for _ in range(len(queue)):
                newRoot=queue.pop()
                if newRoot.left:
                    queue.appendleft(newRoot.left)
                if newRoot.right:
                    queue.appendleft(newRoot.right)
                res.append(newRoot.val)
        return res
```