```
题目:分行打印二叉树
1
2
3
    struct TreeNode {
4
        int val;
5
        struct TreeNode *left;
        struct TreeNode *right;
6
        TreeNode(int x):
 7
                val(x), left(NULL), right(NULL) {
8
9
         }
10
    };
11
    */
12
    class Solution {
13
    public:
            vector<vector<int> > Print(TreeNode* pRoot) {
15
                 // 存储结果
16
17
                vector<vector<int>> result; // 存储全部节点
18
                                             // 存储某一层节点
                vector<int> temp;
19
20
                 // 边界条件
21
                if(pRoot == nullptr)
22
                    return result;
23
                // 辅助容器: 队列
24
25
                queue<TreeNode*> q;
26
                TreeNode* fr;
27
                int now level=1;
28
                int next level=0;
29
                // 根节点入队列
30
31
                q.push (pRoot);
32
33
                 // 遍历队列
34
                while(!q.empty())
35
                     // 节点弹出队列
36
37
                     fr=q.front();
38
                     temp.push back(fr->val);
39
                    q.pop();
40
41
                     // 遍历节点左右子树
42
                     if(fr->left != NULL) {
43
                        q.push(fr->left);
44
                        ++next_level;
45
                     if(fr->right != NULL) {
46
47
                        q.push(fr->right);
48
                        ++next level;
49
50
                     --now_level;
51
                     // 判断当前层是否打印完
52
53
                     if(now level==0){
                        now_level=next_level;
54
55
                        next level=0;
56
                        result.push back(temp);
57
                        temp.clear(); // 清除一维vector
58
                     }
59
                 }
60
61
               return result;
62
             }
63
    };
```