

102. Binary Tree Level Order Traversal

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Given a binary tree, return the *level order* traversal of its nodes' values. (ie, from left to right, level by level).

For example:

Given binary tree [3,9,20,null,null,15,7] ,

```
    3
   / \
  9  20
 /  \
15   7
```

return its level order traversal as:

```
[
  [3],
  [9,20],
  [15,7]
]
```

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```
1 /**
2  * Definition for a binary tree node.
3  * struct TreeNode {
4  *     int val;
5  *     TreeNode *left;
6  *     TreeNode *right;
7  *     TreeNode(int x) : val(x), left(NULL), right(NULL) {}
8  * };
9  */
10 class Solution {
11 public:
12     vector<vector<int>> levelOrder(TreeNode* root) {
13         vector<vector<int>> res;
14         if(root==NULL) return res;
15         queue<TreeNode*> Q;
16         Q.push(root);
17         while(!Q.empty()){
18             int size = Q.size();
19             vector<int> cur(size,0);
20             for(int i=0;i<size;i++){
21                 TreeNode* tmp= Q.front();
22                 Q.pop();
23                 cur[i]=tmp->val;
24                 if(tmp->left!=NULL) Q.push(tmp->left);
25                 if(tmp->right!=NULL) Q.push(tmp->right);
26             }
27             res.push_back(cur);
28         }
29         return res;
30     }
31 };
```

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