

102. Binary Tree Level Order Traversal

[Description \(?tab=Description\)](#)[Submission \(?tab=Submission\)](#)[Solutions \(?tab=Solutions\)](#)[Add to List \(?tab=List\)](#)Total Accepted: **152738** Total Submissions: **407414** Difficulty: **Medium** Contributors: **Admin**

Notes

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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Python



```
1 # Definition for a binary tree node.
2 # class TreeNode(object):
3 #     def __init__(self, x):
4 #         self.val = x
5 #         self.left = None
6 #         self.right = None
7
8 class Solution(object):
9     def levelOrder(self, root):
10         """
11         :type root: TreeNode
12         :rtype: List[List[int]]
13         """
14         def bfs(root):
15             #d is a list
16             d=[]
17             i=0
18             thislevel=[root]
19             while thislevel:
20                 #add a new list to d for a new level
21                 d.append([])
22                 for node in thislevel:
23                     d[i].append(node.val)
24
25                 nextlevel=[]
26                 for node in thislevel:
27                     if node.left:
28                         nextlevel.append(node.left)
29                     if node.right:
30                         nextlevel.append(node.right)
31                 i=i+1
32                 thislevel=nextlevel
33             return d
34
35         if root:
36             d=bfs(root)
37             return d
```

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Custom Testcase ☒Contribute Testcase 

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

Shortcut: Ctrl + '


One line for one parameter. Hint ▾

Run Code

Submit Solution

Notes

Run Code Status: Finished

Run Code Result: 

Your input

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

Your answer

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

Expected answer

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

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Runtime: 35 ms

Note: is Run Code inconsistent with Submit Solution? If you are using global variables or C/C++, check this (/faq/#different-output) out.

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