## Connect Nodes at Same Level ⊓

**Medium**   Accuracy: **45.67%**   Submissions: **61911**   Points: **4**

Given a binary tree, connect the nodes that are at same level. You'll be given an addition **nextRight** pointer for the same.

**Initially**, all the **nextRight** pointers point to **garbage** values. **Your function** should set these pointers to point next right for each node.

```
    10                  10 ------> NULL
   / \                 /   \
  3  5    =>    3 ------> 5 --------> NULL
 / \  \            / \       \
4 1  2        4 --> 1 -----> 2 --------> NULL
```

**Example 1:**

```
Input:
      3
    /   \
   1     2
Output:
3 1 2
1 3 2
Explanation:The connected tree is
          3 ------> NULL
        /     \
      1-----> 2 ------- NULL
```
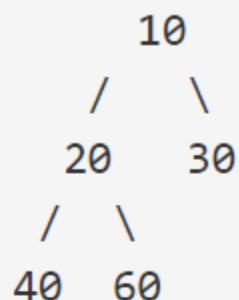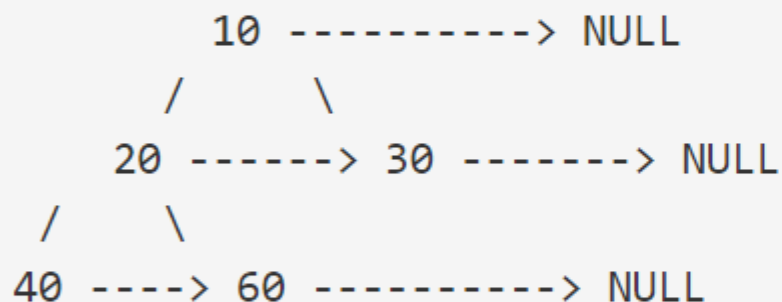
**Example 2:**

```
Input:
      10
    /    \
   20    30
  /  \
 40  60
Output:
10 20 30 40 60
40 20 60 10 30
Explanation:The connected tree is
         10 ----------> NULL
        /       \
      20 ------> 30 -------> NULL
     /    \
   40 ----> 60 ----------> NULL
```

**Your Task:**

You don't have to take input. Complete the function **connect()** that takes **root** as parameter and connects the nodes at same level. The printing is done by the driver code. First line of the output will be level order traversal and second line will be inorder travsersal

**Expected Time Complexity:** $O(N)$.
**Expected Auxiliary Space:** $O(N)$.

**Constraints:**
$1 \leq$ Number of nodes $\leq 10^5$
$0 \leq$ Data of a node $\leq 10^5$

## Company Tags

○ Accolite    ○ Adobe    ○ Amazon    ○ Boomerang Commerce    ○ Flipkart    ○ Google    ○ Microsoft    ○ Ola Cabs
○ Oracle    ○ OYO Rooms    ○ Xome

## Topic Tags

○ Tree

## Related Courses

○ Must Do Interview Preparation    ○ DSA-Self Paced with Doubt Assistance    ○ Data Structures and Algorithms
○ Amazon SDE Test Series    ○ Placement 100    ○ Complete Interview Preparation
○ Complete Interview Preparation With Doubt Assistance    ○ Microsoft SDE Test Series    ○ Geeks Classes - Live Session
○ Live Classes on Data Structures & Algorithms - USA    ○ Advance DSA Course    ○ Competitive Programming - Live

## Related Interview Experiences

○ Amazon interview experience set 355 1 year experienced

○ Microsoft interview experience set 98 on campus for idc