
Algorithm Populate the *next_right* pointers by connecting all the nodes at the same level

```
1: function CONNECT_NODES_AT_SAME_LEVEL(root)
   ▷ Queue stores the pointers of the nodes.

2:   if Tree is empty then
3:     return

4:   marker ← nullptr
5:   queue.push(root)
6:   queue.push(marker)
7:   while Queue is not empty do
8:     if queue.front == marker then
9:       queue.pop
10:    if queue is not empty then
11:      queue.push(marker)
12:    current_node ← queue.front
13:    queue.pop
14:    current_node.next_right ← queue.front    ▷ The queue can also contain the marker
15:    if Left Child Exists then
16:      queue.push(current_node.left)
17:    if Right Child Exists then
18:      queue.push(current_node.right)
```
