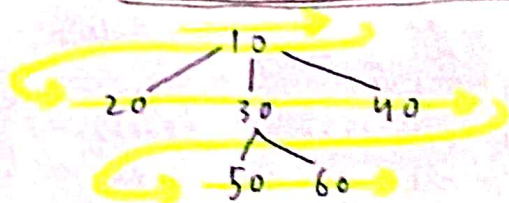


LEVEL ORDER LINEWISE TRAVERSAL IN GENERAL TREE



Output: 10
20 30 40
50 60

- Hum Queue DS use krengy!
- Hum iss baar 2 Queues Banayengy
- Phele main q me root daal dengy!
- ~~Phir~~ Iss baar bhi RPA use krengy magar

main q (q)
child q (cq)
R → remove } main q (q)
P → Print
A → Add } child q (cq)

Code

```
public static void levelOrderLineWise (Node node) {
```

```
    Queue<Node> q = new ArrayDeque<Node>();
```

```
    Queue<Node> cq = new ArrayDeque<Node>();
```

```
    q.add(root);
```

```
    while (q.size() > 0) {
```

```
        Node temp = q.remove();
```

```
        Syso(temp.data + " ");
```

```
        for (Node child : temp.children) {
```

```
            cq.add(child);
```

```
        }
```

```
        if (q.size() == 0) {
```

```
            q = cq;
```

```
            cq = new ArrayDeque<>();
```

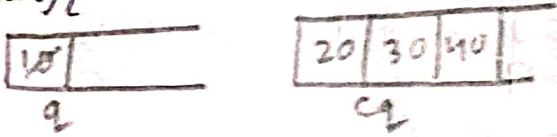
```
            System.out.println();
```

```
        }
```

```
    }
```

```
}
```

START



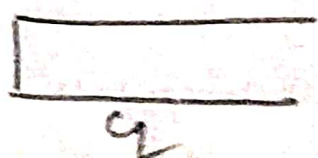
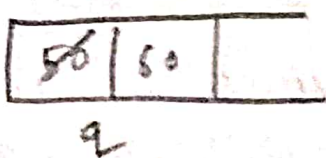
Output:
10

10 removed and printed! and Add children of 10 to cq.
Now q is empty → ∴ q = cq
cq = new
Move to next line!



Output:
10
20 30 40

20 removed and printed (No child)
30 removed and printed and Add children of 30 to cq.
40 removed and printed (No child)
Now q is empty → ∴ q = cq
cq = new
Move to next line



50 removed and printed! (No child)
60 removed and printed! (No child)
Move to next line

END

Output:
10
20 30 40
50 60