

Please use this Google doc to code during your interview. To free your hands for coding, we recommend that you use a headset or a phone with speaker option. Hello!

```

      X      PERFECT
    /  \
   X    X
  / \  / \
 X  X X X

```

```

      X      COMPLETE
    /  \
   X    X
  / \  /
 X  X X

```

```

      X      COMPLETE
    /  \
   X    X
  / \
 X  X

```

```

      X      NOT COMPLETE
    /  \      (gap in the last level)
   X    X
  /      / \
 X      X  X

```

```

      X      NOT COMPLETE
    /      (node missing below last level)
   X
  / \
 X  X

```

```

      0      INDEXED BY LEVEL-ORDER TRAVERSAL ORDER
    /  \
   1    2
  / \  /
 3  a 5 ...

```

```

      X
    /
   X
  \

```

```

X
int getValue(node,int i){

    Queue<Node> q = new LinkedList<>();
    q.add(root);
    int s = 0;
    ArrayList<Integer>
        while (root!=null){

            if(root.left){
                s++;
                q.add(root.left)
            }else{
                s=s+2;
                q.push(root.left)
            }

            root = root.left
            root
        }
}

```

```

}
Series:
n
[0, 1, 2, ..., n-1]

```

```

[0, x, 2, x,4
class node{
    string val;
    node left;
    node right;
}

```

```

getValue(root,4) = a

```

```

getValue(root,4) = null?

```