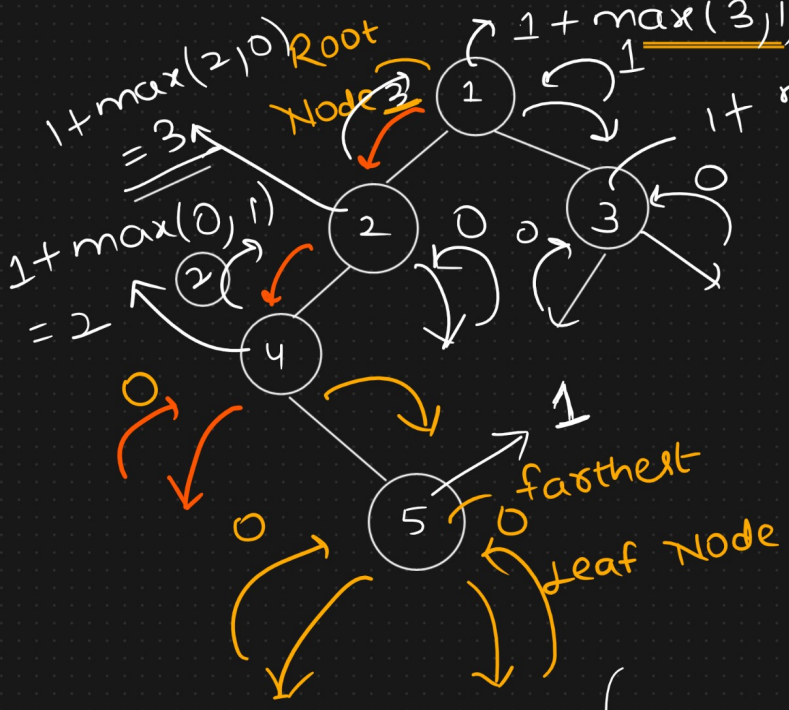
Height of Tree

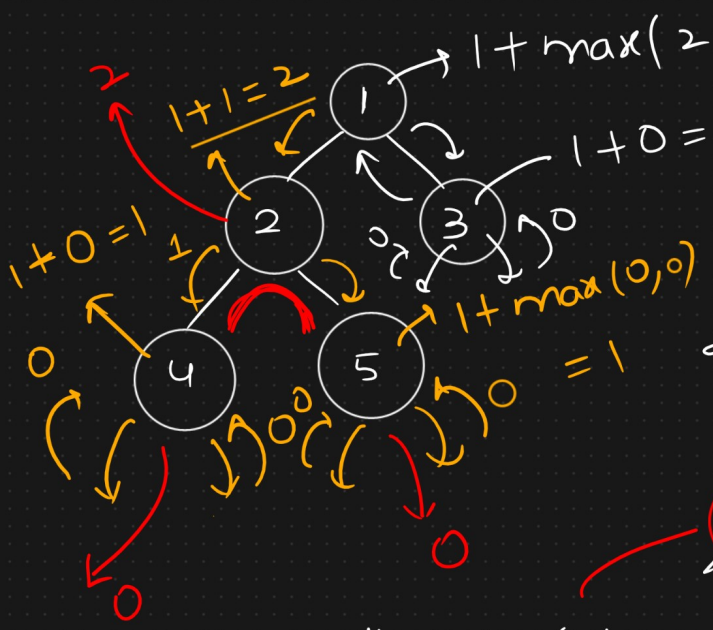



```
maxDepth(Node node){
    if (node == null){
        return 0;
    }
    else {
        lDepth = maxDepth
                 (node.left);
        rDepth = maxDepth
                 (node.right);
        return 1 + max(lDepth, rDepth);
    }
}
```

Time complexity

↳ O(n)

Diameter of Tree



diameter[0] = Math.max(diameter[0],

lDepth + rDepth);

return 1+ max(lDepth, rDepth)