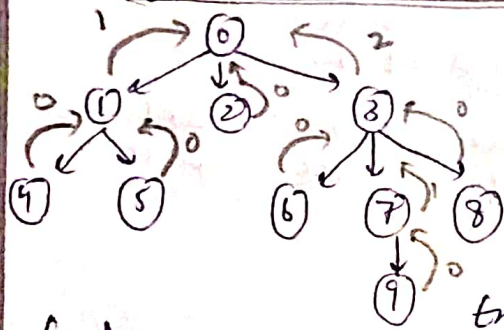


Height of a Generic Tree



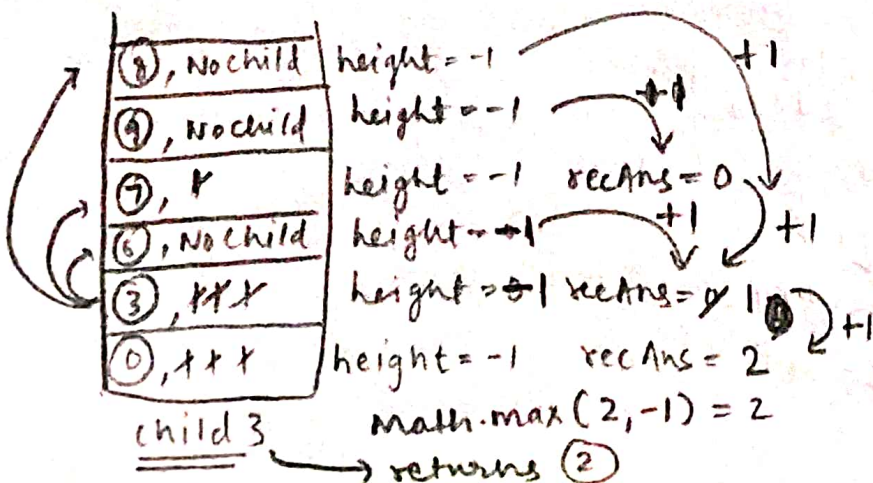
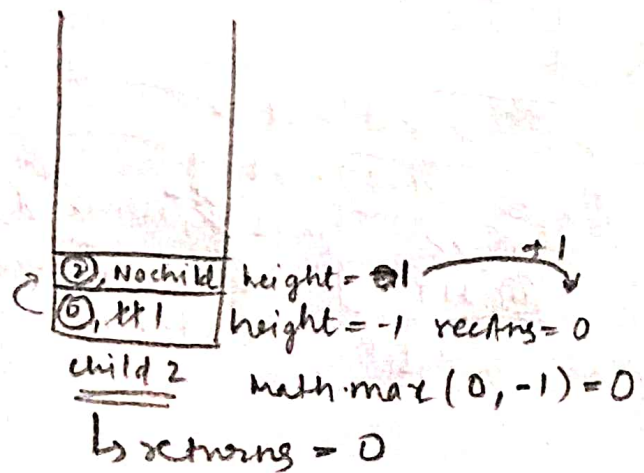
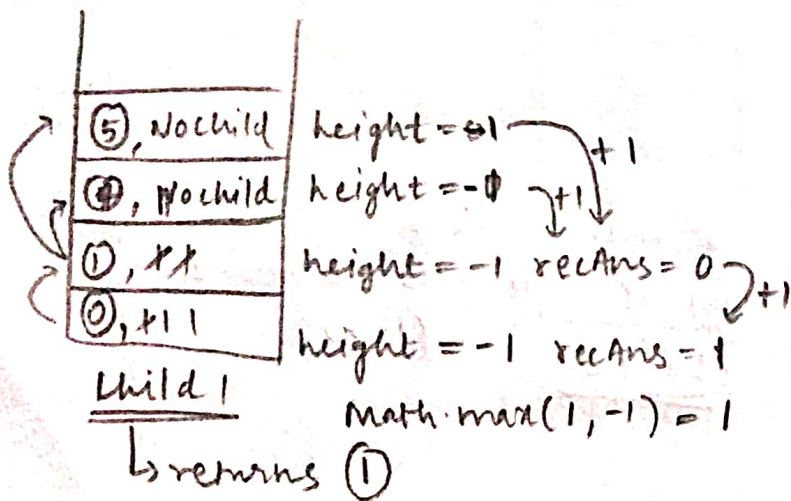
Expectation: Humne expectation hai ~~height~~ • height(node) se ki yeh height of tree nikalake dega in terms of edges.

Faith: Height of childrens of root node sab apni apni height denge

Expectation meet Faith: $\max(1, 2, 3) + 1$

Code

```
public static int height(Node node) {
    int height = -1;
    for(Node child : node.children) {
        int recAns = height(child);
        height = Math.max(recAns, height);
    }
    return height + 1;
}
```



At Root Node
 $\therefore \text{Math.max}(1, 0, 2) + 1$
 $\Rightarrow 2 + 1$
 $\Rightarrow 3$