



Clarifications:

1. Can input node be None?

Patterns:

1. Tree
2. Recursion
3. Memorization ( I don't know is it right for here. Correct me )

1. We can write a function `depth(p)`; return the depth of the position. And run this function recursively -> every node. So, it will be `depth(p) * n`. \*n = number of nodes.  
This is not efficient. =>  $O(n^2)$
2. Top-Down approach, Recursive but also memorizing each position

Seudo:

Func `maxDepth(node)`:

If not node:

Return 0

If node is leaf:

Return 1

Else:

Return `1 + max(maxDepth(node.left), maxDepth(node.right))`