**Problem Name:** Maximum Depth of N-ary tree

**Topics:** Tree, Depth-First Search Breadth-First Search

**Companies:** Amazon, Microsoft, Google, ByteDance

**Level:** Easy

**Language:** C++

**Problem Statement**: Given a n-ary tree, find its maximum depth.

The maximum depth is the number of nodes along the longest path from the root node down to the farthest leaf node.

*Nary-Tree input serialization is represented in their level order traversal, each group of children is separated by the null value (See examples).*

**Input Format:**

First line of the input contain integer n (size of list)

Second line contain n space separated integer list values.

Ex:

5

1 2 3 4 5

**Output Format:** Integer representing maximum depth of Tree.

**Constraints:**

* The total number of nodes is in the range [0, 104].
* The depth of the n-ary tree is less than or equal to 1000.

**Examples:**

**Input:** root = [1,null,3,2,4,null,5,6]

**Output:** 3

**Brute force Solution:**

**Explanation:**

**Code:**

**Time Complexity**: O(N)

**Space Complexity:** O(N)

**Optimized Solution:**

**Explanation**:

**Code:**

**Time Complexity**: O(N)

**Space Complexity:** O(1)