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| **Assignment Case** | Description: LogoBINUS-University |
| CH1Special |
| **Periode Berlaku** Semester Ganjil 2021/2022  ***Valid on*** *Odd Semester Year 2021/2022* | **Software Laboratory Center**  **Assistant Recruitment 22-1** |

## **Soal**

*Case*

**Maximum Depth of Binary Tree**

Given a binary tree, you need to find the **deepest level** of that tree.

**Input**The program will ask for **n**, and then followed by **n-integers nodes**.

**Constraint**

1 ≤ n ≤10000

0 ≤ nodes[i] ≤100

**0** means there isn’t any node there.

**Output**Print the **maximum depth** of the **binary tree**.

**Example (Print out one ‘\n’ at the end of the results)**

|  |  |
| --- | --- |
| **Input** | **Output** |
| 7  3 9 20 0 0 15 7 | 3 |
| 3  1 0 2 | 2 |

**Explanation**

**A picture containing watch

Description automatically generated**

**Figure 1. First Test Case**

The zeroes means that there are no nodes at that position. You have to figure out how to make all the numbers into a binary tree, or another formula to find the child and the parent of the nodes.