


Assignment Case	
CH1Special	
Periode Berlaku Semester Ganjil 2021/2022 Valid on Odd Semester Year 2021/2022	Software Laboratory Center Assistant Recruitment 22-1

Soal

Case

The Total of Gold inside the Deepest Level of a Gold Mine

You are a miner inside a game called “**MineBlue**”, you tried to find gold so you can be a millionaire inside the game but you want to be rich as fast as possible by obtaining the best quality gold from the deepest level of the gold mine. MineBlue is a little weird, everytime you mine, you can only go **left or right**, every mine shaft **have two pathways** and a **mineshaft** consists of **total gold ingots** that you can mine. Your task is given a map of the **mineshaft**, find total of **gold ingots** that you can mine.

Input

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

Constraint

$$1 \leq n \leq 10000$$

$$1 \leq \text{goldmines} \leq 100$$

Output

Print the **total of gold** that you can mine.

Example (Print out one '\n' at the end of the results)

Input	Output
13 1 2 3 4 5 0 6 7 0 0 0 0 8	15
15 6 7 8 2 7 1 3 9 0 1 4 0 0 0 5	19

Explanation

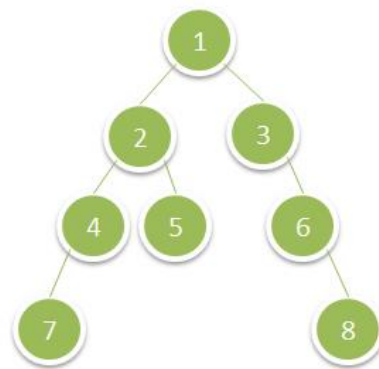


Figure 1. First Test Case

If the first test case is illustrated, it should look like the picture above. The first test case **has a result of 15** because the deepest mine have **7 + 8 equals to 15**. Zeroes are ignored, because **there isn't gold** that can be **mined** if that mine has **0 gold ingots**.