



Multiple Additions

Just adding two numbers is boring. Calculate n additions!

Input

Die erste Zeile besteht aus einer Zahl n . T n Zahlen The first line consists of a single integer n . On the second line there are n numbers a_0, \dots, a_{n-1} , separated by space.

Output

Print the sum $a_0 + a_1 + \dots + a_{n-1}$.

Limits

The tests consist of 2 groups, each is worth 50 points. In all testcases, we have $-10^9 \leq a_i \leq 10^9$.

- In test group 1, we have $1 \leq n \leq 2$.
- In test group 2, we have $1 \leq n \leq 1000$.

Examples

Input	Output
2 3 -2	1

Input	Output
5 1000000000 1000000000 1000000000 ↪ 1000000000 1000000000	5000000000

The input should be presented on a single line, the symbol " \hookrightarrow " is just here to empathize this.