
Summation

Input file: `standard input`
Output file: `standard output`
Time limit: 1 second
Memory limit: 256 megabytes

Given a number N and an array A of N numbers. Print the **summation** of the array elements.
Note: Solve this problem using recursion.

Input

First line contains a number N ($1 \leq N \leq 10^3$) number of elements.
Second line contains N numbers ($-10^9 \leq A_i \leq 10^9$).

Output

Print the **summation** of the N numbers.

Examples

standard input	standard output
4 1 4 2 7	14
4 5 5 5 5	20