Problem C. Hello Recursion

Time limit	1000 ms
Mem limit	1572864 kB
Code length Limit	50000 B
OS	Linux

You will be given an array of N integers. Write a recursive function to calculate its summation.

Input

Input starts with an integer T (T ≤ 100), the number of test cases.

Each of the next T lines will start with an integer N (1 <= N <= 100), number of integers followed by N space separated. Each of these N integers will be between –1000 and 1000 (inclusive).

Output

For each test case, output one line in the format "Case x: a" (quotes for clarity), where x is the case number and a is the summation of the integers.

Example

Input	Output
2 5 10 5 -2 3 0 3 100 -10 34	Case 1: 16 Case 2: 124