
72782. Interesting problem

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

Given n numbers you need to count the number of even and the number of odd numbers from the given list.

Input

In the first line, input n . $1 \leq n \leq 1000$ In the second line, given n integers

Output

In the first line, output the number of evens, after that output the number of odds.

Examples

standard input	standard output
5 1 2 3 4 5	2 3
1 2	1 0
10 1 1 1 1 1 1 1 1 1 1	0 10
3 1 2 1	1 2
8 4 4 4 4 4 4 4 4	8 0