

Odd

Description

Given a list of numbers, find how many occur an odd number of times.

Input

The first line is the length of the list, $0 < N \leq 9,000$.

The next N lines are the positive integers in the list, each at most 50,000,000.

Output

Output the number of numbers that occur an odd number of time.

Input

1
1

Output

1

Input

6
1
3
4
3
3
4

Output

2