Unique Elements

Time limit: 5.0s   **Memory limit:** 64M

Given a list of N ($1 \le N \le 30\,000$) positive integers less than or equal to 10^9, print out how many distinct numbers exist.

Input Specification

The first line will contain the integer N. The next N lines will contain an element in the list.

Output Specification

One integer: the number of distinct elements in the given list.

Sample Input 1

```
2
1
2
```

Sample Output 1

```
2
```

Sample Input 2

```
4
1
2
2
5
```

Sample Output 2

```
3
```