# **Problem I. Distinct Numbers**

**Time limit** 1000 ms **Mem limit** 524288 kB

You are given a list of n integers, and your task is to calculate the number of *distinct* values in the list.

## Input

The first input line has an integer n: the number of values.

The second line has n integers  $x_1, x_2, \ldots, x_n$ .

## Output

Print one integers: the number of distinct values.

#### **Constraints**

- $1 \le n \le 2 \cdot 10^5$
- $1 \le x_i \le 10^9$

### Sample

Input	Output
5 2 3 2 2 3	2