

## Problem C. 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  $x_1, x_2, \dots, x_n$ .

### Output

Print one integers: the number of distinct values.

### Constraints

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

### Sample

Input	Output
5 2 3 2 2 3	2