



CSES Problem Set

Distinct Numbers

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Time limit: 1.00 s **Memory limit:** 512 MB

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 integer: the number of distinct values.

Constraints

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

Example

Input:

5
2 3 2 2 3

Output:

2

Sorting and Searching

Distinct Numbers	<input type="text" value="-"/>
Apartments	<input type="text" value="-"/>
Ferris Wheel	<input type="text" value="-"/>
Concert Tickets	<input type="text" value="-"/>
Restaurant Customers	<input type="text" value="-"/>
Movie Festival	<input type="text" value="-"/>
Sum of Two Values	<input type="text" value="-"/>
Maximum Subarray Sum	<input type="text" value="-"/>
...	

Your submissions