Distinct Numbers

Input file:	standard input
Output file:	standard output
Time limit:	1 second
Memory limit:	256 megabytes

Given an array A of size N. Print the number of distinct numbers in the array.

Note: Solve this problem using function.

Input

First line will contain a number N $(0 \leq N \leq 10^3)$ number of elements.

Second line will contain N numbers $(-10^3 \leq A_i \leq 10^3)$.

Output

Print the number of distinct numbers in the array.

Examples

standard input	standard output
3 1 2 2	2
5 1 8 9 2 9	4