

Number of Distinct Values

PROBLEM

You are to write a program, which, given N positive integer values X_1, X_2, \dots, X_N , compute the number of distinct values in those N integer values.

INPUT

Your program reads input from standard input. The first line contains one integer: the number N , $2 \leq N \leq 1000$. The following N lines represent the values X_1, X_2, \dots, X_N , and each of these lines contains one integer: a value X_i , $1 \leq X_i \leq 10000$.

OUTPUT

Your program writes output to standard output. The output contains one integer: the number of distinct values in X_1, X_2, \dots, X_N .

EXAMPLE INPUTS AND OUTPUTS

Example 1: input

```
10
1
2
3
4
5
4
3
2
1
2
```

output

```
5
```

Example 2: input

```
5
123
321
123
231
321
```

output

```
3
```

SCORING

If the output is correct, you get full score for the test case. Otherwise the score for the test case is 0.