
How many different?**Z43166_en**

Write a program that prints how many different numbers there are in a sequence with n integer numbers.

Input

Input contains different test data. Each test data starts with a natural number $n \geq 1$ followed by a sequence with n integer numbers.

Output

For each sequence of the input print, in a line, the number of different elements that contains.

Sample input

```
5      15 12 41 15 41
5      99 99 99 99 99
1      -666
10     1 1 2 3 4 5 6 7 8 9
10     1 1 2 3 4 5 6 7 8 9
```

Sample output

```
3
1
1
9
9
```

Problem information

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