BlueBook - Digits

Time limit: 1.0s   **Memory limit:** 16M

BlueBook

Determine the number of digits in a given number. A negative number has the same number of digits as its absolute value: for example, -12 has 2 digits; the negative sign is not a digit.

Input Specification

The first line of input contains an integer T $(1 \leq T \leq 10\,000)$: the number of cases to follow. Each of the following T lines contains an integer N $(-10^6 < N < 10^6)$, with no leading zeroes.

Output Specification

The number of digits in the integer given. Answers to the test cases should be printed in order.

Sample Input

```
4
123
1
-12
0
```

Sample Output

```
3
1
2
1
```