

# Scientific Notation(科學表示法)

## Description

Your task is to use Lex and regular expression to find out all the input lines that satisfy the definition of normalized scientific notation. Please print each line that satisfies the normalized scientific notation with a newline character.

## Definition

$$mE^n, m \in R, 1 \leq |m| < 10, n \in Z$$

A scientific notation is made up by normalized significand(m) and Exponentiation(n).

The definition of normalized significand is  $m, m \in R, 1 \leq |m| < 10$ .

The definition of Exponentiation is  $n, n \in Z$ .

Here are some examples

(ex) 3.14E159	✓	(ex) 31.4E159	✗
(ex) 3.14E+159	✓	(ex) +3.14E+159	✓
(ex) +3.14E159	✓	(ex) 31.4E1.59	✗

## Sample Input

3.14E159  
3.14E+159  
+3.14E159  
+3.14E+159  
31.4E159  
31.4E1.59  
31.4E+159  
31.4E-159  
+31.4E+159  
-31.4E-159

## Sample Output

3.14E159  
3.14E+159  
+3.14E159  
+3.14E+159