## **Bugger Game**



Write a program that takes a number and returns its multiplicative persistence, which is the number of times you must multiply the digits in number until you reach a single digit.

Examples bugger(39)  $\rightarrow$  3 // Because 3 \* 9 = 27, 2 \* 7 = 14, 1 \* 4 = 4 and 4 has only one digit.

bugger(999)  $\rightarrow$  4 // Because 9 \* 9 \* 9 = 729, 7 \* 2 \* 9 = 126, 1 \* 2 \* 6 = 12, and finally 1 \* 2 = 2.

## Input Format

Input consists single integer N.

## **Constraints**

1<=N<=10^6

## **Output Format**

Output consists an integer.