Time limit: 1.00 s **Memory limit:** 512 MB

You are given an integer n. On each step, you may subtract one of the digits from the number.

How many steps are required to make the number equal to 0?

Input

The only input line has an integer n.

Output

Print one integer: the minimum number of steps.

Constraints

- $1 \le n \le 10^6$

Example

Input:
27

Output:
5

Explanation: An optimal solution is $27 \to 20 \to 18 \to 10 \to 9 \to 0$.