

Larger Product

You have a function $f(x)$ that returns the product of all the digits of that number. You will be given a number N . You have to find out how many x exists such that $0 \leq x \leq N$ and $N \leq f(x)$

Input:

There are several test cases in this problem. The input contains a positive integer N ($1 \leq N \leq 10000$). The input is terminated by end of file.

Output:

Print the required answer on a separate line for each input.

Sample Input	Sample Output
5	5
15	9

Problem Setter: Md Abdul Alim, Dept. of Computer Science, Bangladesh University of Business & Technology