



AS I
Competitive Programming Contest 2014 E.C.

Problem Factorial Digits

Time Limit 3 second

Problem

Given an integer N can you find the number of digits in N!.

$$N! = N * (N-1) * (N-2) * 2 * 1$$

Input

The first line of input an integer $~T~1 \le T \le 10^5$ denoting the number of testcases. Then T number of lines an integer $N,~1 \le N~\le 10^5$

Output

For each T lines output the number of digits in the value N!.

Sample Input 1	Sample Output 1
3	1
1	3
5	7
10	