# Jutge.org

The Virtual Learning Environment for Computer Programming

## How many digits?

X08783\_en

Write a program that computes the number of digits in several bases.

### Input

Input consists of a sequence of pairs of natural numbers b and n, such that  $b \ge 2$  and  $n \ge 1$ .

#### Output

For every pair, print the number of digits of n in base b.

Sample input	Sample output
2 8	4
2 9	4
2 15	4
2 16	5
3 6	2
10 1	1
10 10	2
10 100	3
10 1000	4

#### **Problem information**

Author : Maria Serna Translator : Maria Serna

Generation: 2015-02-18 22:21:46

© *Jutge.org*, 2006–2015. http://www.jutge.org