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The Virtual Learning Environment for Computer Programming

Logarithms P90133_en

Write a program that computes logarithms 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 $\lfloor \log_b n \rfloor$.

Sample input	Sample output
2 8	3
2 9	3
2 15	3
2 16	4
3 6	1
10 1	0
10 10	1
10 100	2
10 1000	3

Problem information

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