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## Logarithms

P90133\_en

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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  $b \geq 2$  and  $n \geq 1$ .

### Output

For every pair, print  $\lfloor \log_b n \rfloor$ .

#### Sample input

```
2 8
2 9
2 15
2 16
3 6
10 1
10 10
10 100
10 1000
```

#### Sample output

```
3
3
3
4
1
0
1
2
3
```

### Problem information

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Generation : 2024-05-03 08:32:18

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