Q4 // Mr. White's Math

Anish finally decided to attend Mr. White's math after skipping for 10 sessions due to a physics project. When he arrived to class ~~late~~, Mr. White was teaching factorials. Mr. White explained that "n" factorial (represented as n!) is the product of the positive integer n and all positive integers less than it. E.g 6! = 6x5x4x3x2x1 = 120. Upon seeing Anish arrive ~~late~~, Mr. White yells, "ANISH! Get over here!" Anish waddles up to the board and takes a piece of chalk. "I want you to solve this question. If you've been paying attention to my lesson, this should be a piece of cake."

Here is Mr. White's problem for Anish:
Given 2 positive integers *a* and *p*, where *p* is a prime integer, find the greatest integer of *x* where p^x is a divisor of *a*!

Anish is stupefied, because he doesn't even know what a factorial is. Luckily, you've been paying attention to Mr. White's class, so you can help Anish escape Mr. White's chalk. Make a program to help Anish.

Input Specification:
The first 2 lines will contain integers a $(1<=a<=50)$ and p $(1<=p<=100)$, respectively.

Output Specification:
Output the greatest integer value of x.

Sample Input 1:

```
3
2
```

Sample Output 1:

```
1
```

Explanation:
3! = 3*2*1 which only has one factor of 2. Therefore, the highest divisor is 2^1. You output the exponent 1.

Sample Input 2:

```
10
3
```

Sample Output 2:

```
4
```