Problem A
Divisibility of Factors

Input: standard input
Output: standard output
Time Limit: 7 seconds
Memory Limit: 32 MB

Given two integers **N** and **D**, you will have to find how many of the factors of **N!** (factorial **N**) are divisible by **D**.

Input

The input file contains several lines of input. Each line contains two integers **N (0<=N<= 100)** and **D(0<|D|<=2^31-1)**. Input is terminated by a line containing two zeroes. This line should not be processed.

Output

For each line of input produce one line of output. This line contains a single integer, which denotes of many different factors of **N!** are divisible by **D**.

Sample Input

```
10 2
9 3
0 0
```

Sample Output

```
240
128
```

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