Problem A

RSA Factorization

Input File: A.IN
Output File: standard output
Program Source File: A.C, A.CPP, A.JAVA

The positive integer n is given. It is known that $n = p * q$, where p and q are primes, $p \le q$ and $|q - kp| \le 10^5$ for some given positive integer k. You must find p and q.

Input
Each line contains integers n $(1 < n < 10^{120})$ and k $(0 < k < 10^8)$.

Output
For each pair of numbers n and k print in separate line the product $p * q$ such that $p \le q$.

Sample input
```
35 1
121 1
1000730021 9
```

Sample output
```
5 * 7
11 * 11
10007 * 100003
```