Czech ACM Student Chapter
CTU in Prague, Dept. of Computer Science and Engineering
Charles University in Prague, MFF
VŠB TU Ostrava, FEI, Dept. of Computer Science
SUT Bratislava, FEI, Dept. of Computer Science and Engineering
MUNI Brno, Faculty of Informatics

CTU Open Contest 2005

Divisors

`d.p`, `d.c`, `d.C`

Your task in this problem is to determine the number of divisors of $\binom{n}{k}$. Just for fun — or do you need any special reason for such a useful computation?

Input Specification

The input consists of several instances. Each instance consists of a single line containing two integers n and k ($0 \le k \le n \le 431$), separated by a single space.

Output Specification

For each instance, output a line containing exactly one integer — the number of distinct divisors of $\binom{n}{k}$. For the input instances, this number does not exceed $2^{63} - 1$.

Sample Input

```
5 1
6 3
10 4
```

Output for Sample Input

```
2
6
16
```