Greatest common divisor P67723_en

Write a program that computes the greatest common divisor of two numbers.

Input

Input consists of two strictly positive natural numbers a and b.

Output

Print the greatest common divisor of a and b.

Observation

Although the solution to this exercise does not need to be very efficient, it should not be too slow.

Sample input 1

```
16104 3216
```

Sample output 1

```
The gcd of 16104 and 3216 is 24.
```

Sample input 2

```
1107 15129
```

Sample output 2

```
The gcd of 1107 and 15129 is 369.
```

Problem information

Author: Jordi Petit
Translator: Carlos Molina

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