Greatest common divisor of four P57852_en

Write a function that computes the greatest common divisor of four natural numbers a, b, c and d using the *fast* version of the Euclidean algorithm.

Interface

C++,C
```
int gcd4(int a, int b, int c, int d);
```
Java
```
public static int gcd4(int a, int b, int c, int d);
```
Python
```
gcd4(a, b, c, d)  # returns int
gcd4(a: int, b: int, c: int, d: int) -> int
```

Precondition

The four numbers are strictly greater than zero.

Observation

You only need to submit the required procedure; your main program will be ignored.

Problem information

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