Recursive greatest common divisor P42523_en

Write a recursive function that computes the greatest common divisor of two natural numbers a and b using the *fast* version of the Euclidean algorithm.

Interface

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

Precondition

Neither a nor b are negative, and at least one of them is strictly greater than zero.

Observation

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

Problem information

Author: Jordi Petit
Translator: Carlos Molina

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