Iterative greatest common divisor   P88790_en

Write an iterative 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

Generation: 2026-01-25T12:17:00.554Z