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
	$gcd(a:\ int,\ b:\ int) \rightarrow int$

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

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