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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