
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	<code>int gcd4(int a, int b, int c, int d);</code>
Java	<code>public static int gcd4(int a, int b, int c, int d);</code>
Python	<code>gcd4(a, b, c, d) # returns int</code> <code>gcd4(a: int, b: int, c: int, d: int) -> int</code>

Precondition

The four numbers are strictly greater than zero.

Observation

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

Hint

Using the function @gcd(a,b)@ of the exercise [problem://problemsjutge.org/problems/p1/jpetit/mcd-iteratiu.pbm](https://problemsjutge.org/problems/p1/jpetit/mcd-iteratiu.pbm) should be useful.

Problem information

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