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## Greatest common divisor of four

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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 should be useful.

### Problem information

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