Iterative greatest common divisor

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++**
  ```cpp
  int gcd(int a, int b);
  ```
- **C**
  ```c
  int gcd(int a, int b);
  ```
- **Java**
  ```java
  public static int gcd(int a, int b);
  ```
- **Python**
  ```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**

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