

Euclid's algorithm

Input:

- a – integer positive number
- b – integer positive number

Output:

- The greatest common divisor (GCD) of two numbers: a and b

```
function ALGORITHMEUCLIDS(a,b)
  while  $b \neq 0$  do
    if  $a > b$  then
       $a \leftarrow a - b$ 
    else
       $b \leftarrow b - a$ 
    end if
  end while
end function
```

To call this algorithm you simply call
ALGORITHMEUCLIDS(12, 8)