
Algorithm 1 Euclid's algorithm

1: **procedure** EUCLID(a, b) ▷ The g.c.d. of a and b
2: $r \leftarrow a \bmod b$ **while** $r \neq 0$ **do**
 end
 We have the answer if r is 0
3: $a \leftarrow b$
4: $b \leftarrow r$
5: $r \leftarrow a \bmod b$
6:
7: **return** b ▷ The gcd is b
8: **end procedure**
