

1 exp

Algorithm 1 Euclid's algorithm

1: procedure EUCLID(m, l)	▷ The g.c.d. of m and l
2: $r \leftarrow m \bmod l$	
3: while $r \neq 0$ do	▷ We have the answer if r is 0
4: $m \leftarrow l$	
5: $l \leftarrow r$	
6: $r \leftarrow m \bmod l$	
7: while $r \neq 0$ do	▷ We have the answer if r is 0
8: $m \leftarrow l$	
9: $l \leftarrow r$	
10: $r \leftarrow m \bmod l$	
11: return l	▷ The g.c.d. is l
