Euclid's Algorithm: An example of how to write algorithms in LaTeX

writeLaTeX

October 24, 2016

1 Example Algorithm

Algorithms can be included using the commands as shown in algorithm 1.

Algorithm 1 Euclid's algorithm

1: **procedure** EUCLID(a, b)   ▷ The g.c.d. of a and b
2:     $r \leftarrow a \bmod b$
3:     **while** $r \neq 0$ **do**   ▷ We have the answer if r is 0
4:         **if** a<10 **then**
5:             do something
6:         **end if**
7:         $a \leftarrow b$
8:         $b \leftarrow r$
9:         $r \leftarrow a \bmod b$
10:     **end while**
11:     **return** b ▷ The gcd is b
12: **end procedure**