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

writeLaTeX

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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:        $a \leftarrow b$
5:        $b \leftarrow r$
6:        $r \leftarrow a \bmod b$
7:     **return** b ▷ The gcd is b