Euclids
Recipe

Start with two natural number,
say 55 and 89.

Repeatedly substract the smaller
number from the larger number
until both numbers are equal.

55	89
55	34
21	34
21	13
8	13
8	5
3	5
3	2
1	2
1	1

This number is the greatest com-
mon divisor of the numbers you
started with.

For an interactive version see
http://dvberkel.github.com/euclids-recipe