Recursive Euclid

a = 12, b = 8

a = 8, b = 4

a = 4, b = 0

Iterative Euclid

a = 12, b = 8

a = 8, b = 4

a = 4, b = 0

Both forms of performing the Euclid algorithm make the same amount of steps and the variables change equally in each step.