



```

(controller
gcd-loop
  (assign a (op read))
  (assign b (op read))
test-b
  (test (op =)
    (reg b)
    (const 0))
  (branch (label gcd-done))
  (assign t
    (op rem)
    (reg a)
    (reg b))
  (assign a (reg b))
  (assign b (reg t))
  (goto (label test-b))
gcd-done
  (perform (op print)
    (reg a))
  (goto (label gcd-loop)))

```