

TDT4205 Compiler Construction

Assignment 4

1. Theory

1.1.1) Three Access Code:

main:

t1 = 1144

t2 = 546

param t1

param t2

k = call gcd

return

} Assume: t1 = a, t2 = b. So params
are pushed in the order they
are used in the function.

gcd:

if t2 > 0 then goto (L1)

g = t1

goto (L2)

L1:

t3 = t1 / t2

t4 = t2 * t3

t5 = t1 - t4

param t2

param t5

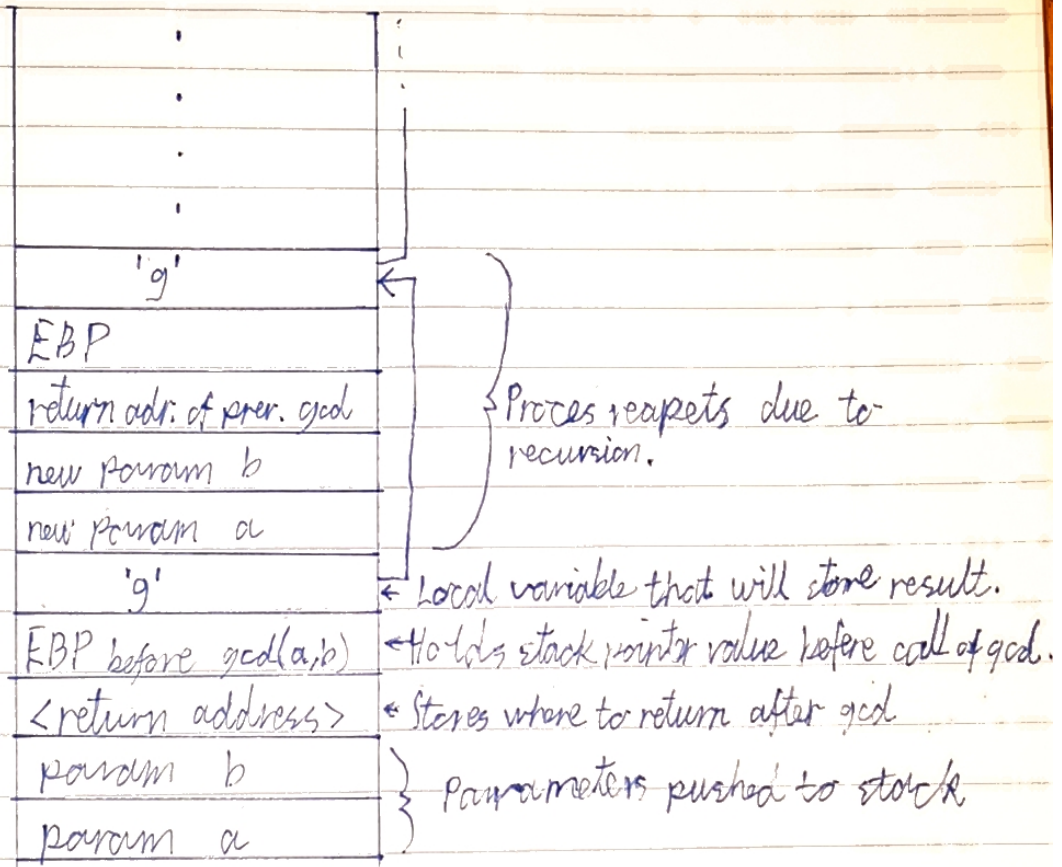
g = call gcd

L2:

return g

1.1.2)

Stack machine



1.1.3) Recursion finished and ready to return.

