**HACK Assembly Language - Pseudocode**

Mult.asm

a = R0

b = R1

product = R2

for (b > 0) {

product = product + a

b = b - 1

}

return product

Fill.asm

screen = SCREEN

while (true) {

if (KBD == 0) {

for (i = 0; i < KBD) {

screen = 0

addr(screen) = addr(screen) + 32

}

}

else {

for (i = 0; i < KBD) {

screen = -1

addr(screen) = addr(screen) + 32

}

}

}