# Trabajo Práctico N2

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## Ejercicio N°1

```
mov [0x40], 1
mov [0x41], 1
mov A, [0x40]
mov D, 0x40


loop:
inc C
mov [D], A
inc D

mov [0x70], A
add A, B

mov B, [0x70]

jnc loop
mov [D], C
```

## Ejercicio N°2

```
mov [0x60], 50
mov [0x61], 20
mov C,0

mov A, [0x60]


loop:

inc C
sub A, [0x61]

jc noentero
```

```
mov D, A

jz entero


jnc loop

entero:
mov [0x62], C
mov [0x63], D
jmp fin

noentero:

mov [0x63], D
dec C
mov [0x62], C
jmp fin

fin:
hlt
```

## Ejercicio N°3

```
mov [0x80], 12
mov [0x81], 30
mov [0x82], 8
mov [0x83], 70
mov [0x84], 32
mov [0x85], 50

mov [0x90], 16
mov [0x91], 36
mov [0x92], 88
mov [0x93], 46
mov [0x94], 35
mov [0x95], 56

mov C, 0x80
mov D, 0x90

iguales:
```

```
cmp C, 0x86
jz end
mov A, [C]
mov B, [D]
cmp A, B
jz igual
sub A, B
jc esmayorB
mov A, [C]
sub B, A
jc esmayorA

moverregistro:
INC C
INC D
jmp iguales


esmayorB:
mov [0xA0], B
jmp moverregistro

esmayorA:
mov [0xA0], A
jmp moverregistro


igual:
MOV [0xA0], 0xFF
jmp moverregistro


end:
HLT
```

## Ejercicio N°4

mov [0x52],0x7A

mov [0x51],0xA0

```
mov [0x62],0x45

mov [0x61],0xAF

mov D,[0x53]

mov A,[0x52]
add A,[0x62]
mov [0x72],A
jc Carry

salto:
add A,D
mov A, [0x61]
add A,[0x51]
mov [0x71],A
jc Carrys

Carrys:
mov [0x70],0x01

hlt

Carry:
MOV D,[0x00]
INC D
jmp salto
```