

# Paquetes

(26)

3.53

## Sensar LSB Paquete 1

- 1  $RA \leftarrow Rx$ ;  $RB \leftarrow 1$ ;  $rRx, WRA, WRB$
- 2  $RC \leftarrow RA \text{ AND } RB$ ;  $WALU(11)$
- 3  $RAUX \leftarrow RC$ ;  $rRC, WRAUX$
- 4  $RA \leftarrow RAUX$   $RB \leftarrow 1$ ;  $WRA, rRAUX, WRB$
- 5  $RC \leftarrow RA - RB$ ;  $FC \leftarrow \text{cout}$ ;  $ALU(10)$ ;  $EN(FC)$

## Paquete 2 sensar MSB

- 1  $RA \leftarrow Rx$ ;  $RB \leftarrow Rx$ ;  $rRx, WRA, WRB$
- 2  $RC \leftarrow RA + RB$ ;  $FC \leftarrow \text{cout}$ ;  $ALU(01)$ ;  $EN(FC)$

## Paquete 3 desplaza la derecha con 0 Shifter

- 1  $RA \leftarrow Rx$ ;  $RB \leftarrow 0$ ;  $rRx, WRA, WRB$
- 2  $RC \leftarrow (RA + RB) \text{ Shr}$ ;  $\text{Shifter}(010)$
- 3  $Rx \leftarrow RC$ ;  $WRx, rRC$

## Paquete 7 restar Rx-Ry sensando cout

- 1  $RA \leftarrow Rx$ ;  $RB \leftarrow Ry$ ;  $rRx, WRA, rRy, WRB$
- 2  $RC \leftarrow (RA - RB)$ ;  $FC \leftarrow \text{cout}$ ;  $ALU(10)$ ;  $EN(FC)$
- 3  $RA \leftarrow RC$ ;  $rRC, WRA$

## Paquete 9 transferir Rx a Ry

- 1  $RA \leftarrow Rx$ ;  $RB \leftarrow 0$ ;  $rRx, WRA, WRB$
- 2  $RC \leftarrow \text{Sh}(RA)$ ;  $\text{Shifter}(100)$ ;  $ALU(00)$
- 3  $Ry \leftarrow RC$ ;  $rRC, WRy$

## Paquete 10 Desplazamiento aritmetico derecha

- 1  $RA \leftarrow Rx$   $RB \leftarrow 0$ ;  $rRx, WRA, WRB$
- 2  $RC \leftarrow \text{ShrA}(RA)$ ;  $\text{Shifter}(101)$ ;  $ALU(00)$
- 3  $Rx \leftarrow RC$ ;  $rRC, WRx$

## Paquete 11 swap a Rx

- 1  $RD \leftarrow Rx$ ;  $WRD, rRx$
- 2  $RE \leftarrow R(\text{Swap}(RD))$ ;  $ASwap$
- 3  $Rx \leftarrow RE$ ;  $rRE, WRx$

## Paquete 4 desplaza derecha con 1

- 1  $RA \leftarrow Rx$ ;  $RB \leftarrow 0$ ;  $rRx, WRA, WRB$
- 2  $RC \leftarrow (RA + RB) \text{ Shr}$ ;  $\text{Shifter}(011)$
- 3  $Rx \leftarrow RC$ ;  $WRx, rRC$

## Paquete 5 desplaza Izq con 0

- 1  $RA \leftarrow Rx$ ;  $RB \leftarrow 0$ ;  $WRA, rRx, WRB$
- 2  $RC \leftarrow \text{ShL}(RA + RB, 0)$ ;  $\text{Shifter}(000)$
- 3  $Rx \leftarrow RC$ ;  $RLx \leftarrow C$  WRx, rRC OK

## Paquete 6

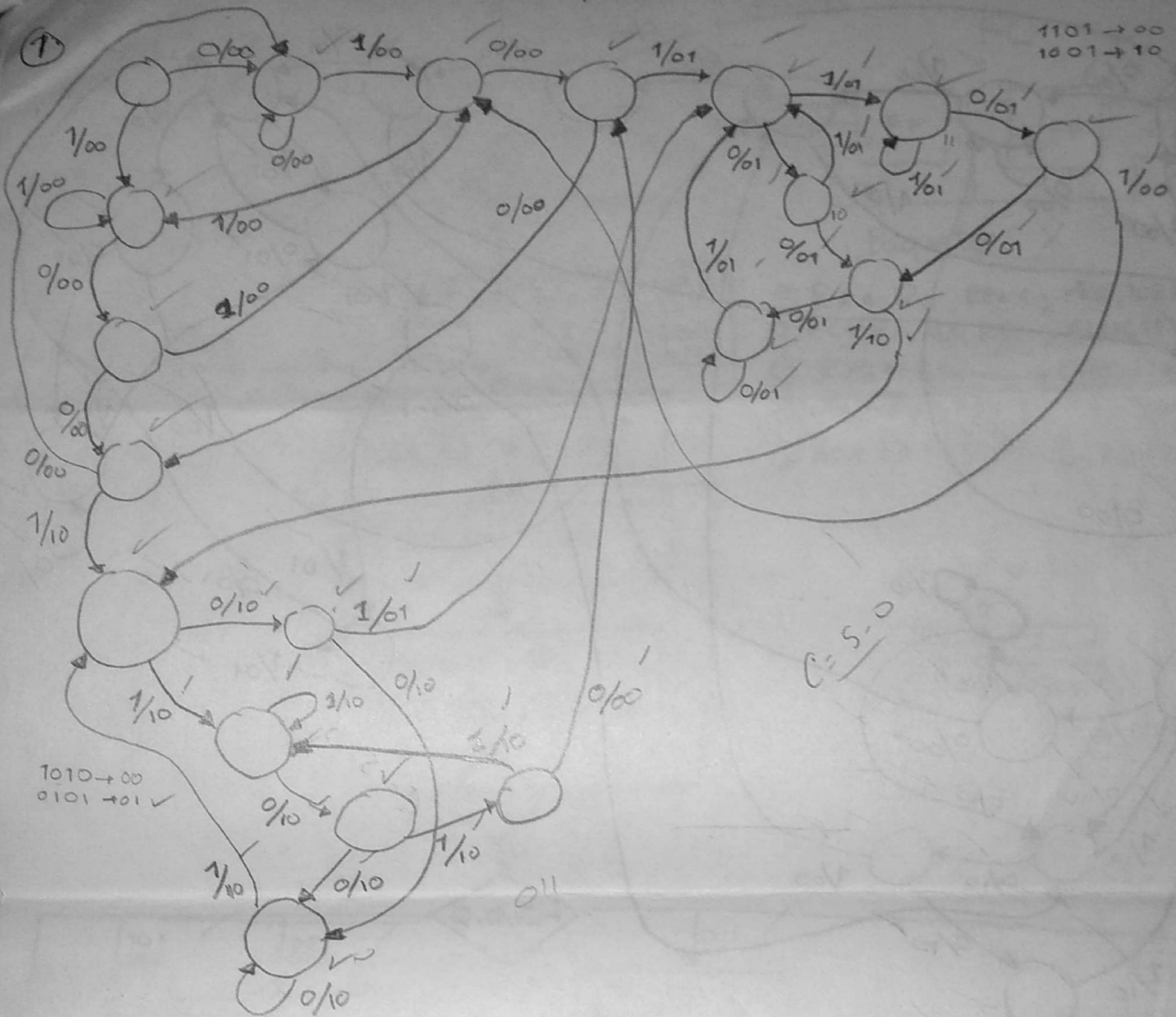
Sumar  $Rx + Ry$  sensando cout  
 $RA \leftarrow Rx$   $RB \leftarrow Ry$ ;  $rRx, WRA, WRB, rRy$   
 $RC \leftarrow RA + RB$ ;  $FC \leftarrow \text{cout}$ ;  $ALU(01)$ ;  $EN(FC)$   
 $Rx \leftarrow RC$ ;  $rRC, WRx$

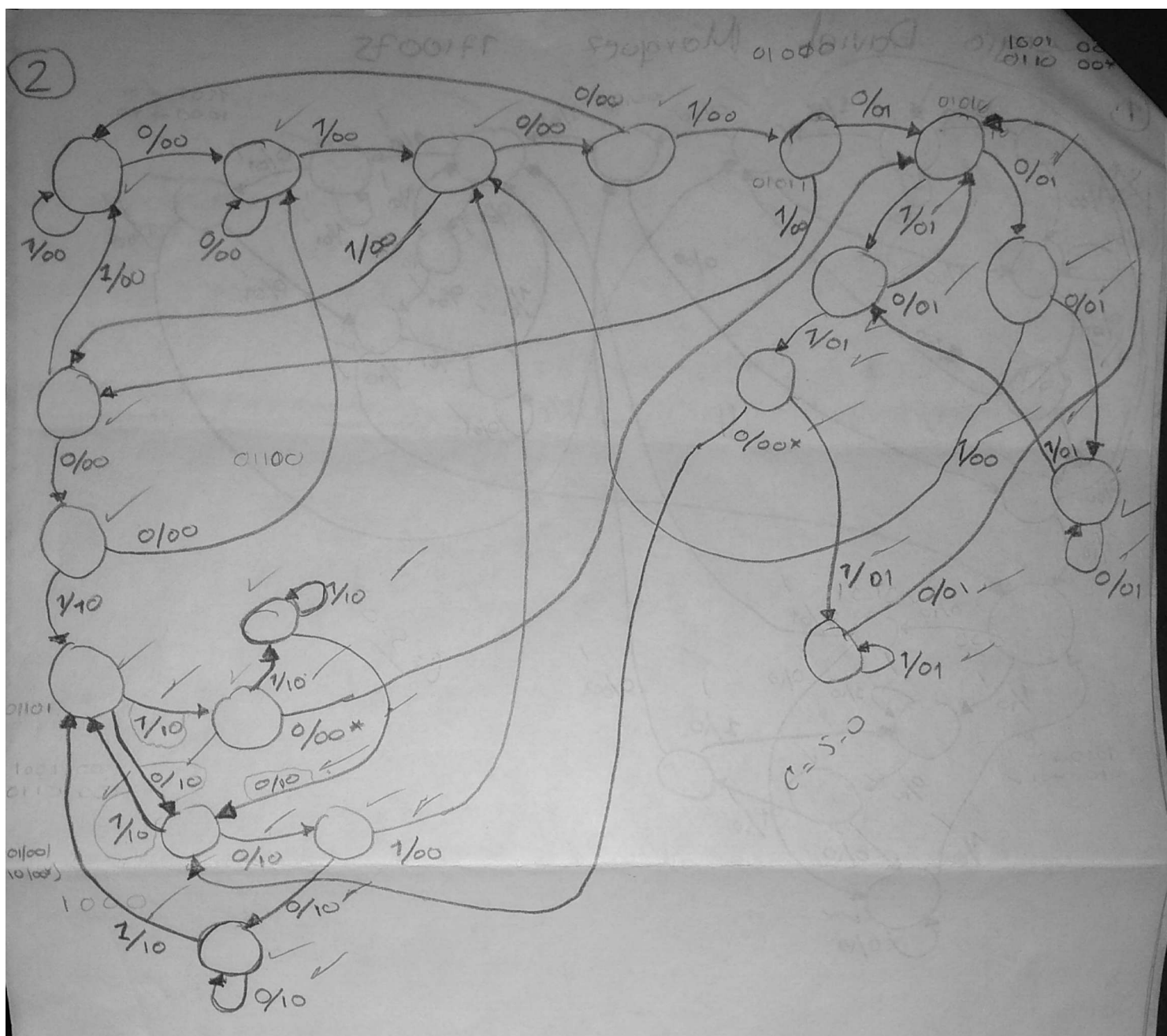
## Paquete 8 desplaza Izq con 1

- 1  $RA \leftarrow Rx$ ;  $RB \leftarrow 0$ ;  $WRA, rRx, WRB$
- 2  $RC \leftarrow \text{ShL}(RA + RB, 1)$ ;  $\text{Shifter}(001)$
- 3  $Rx \leftarrow RC$ ;  $rRC, WRB$  OK

15.0  
 25.0  
 34.5  
 44.5  
 50.0 bke

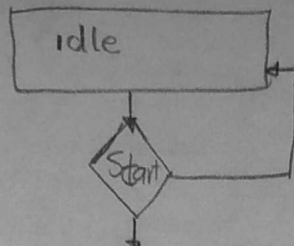
7710075



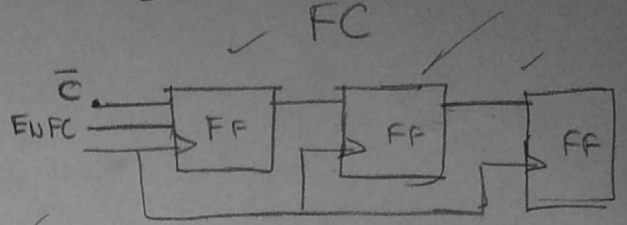
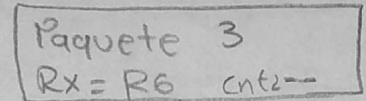
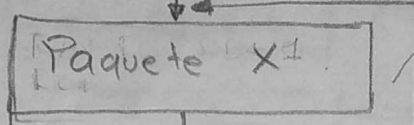
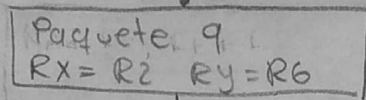


④

Booth



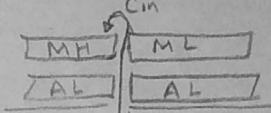
No



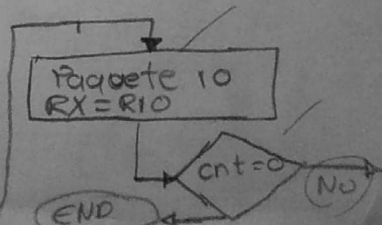
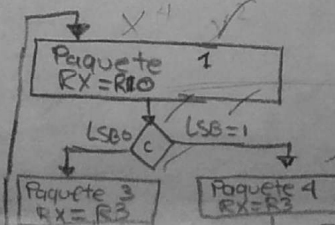
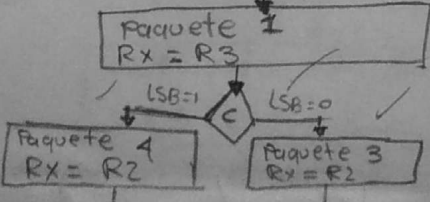
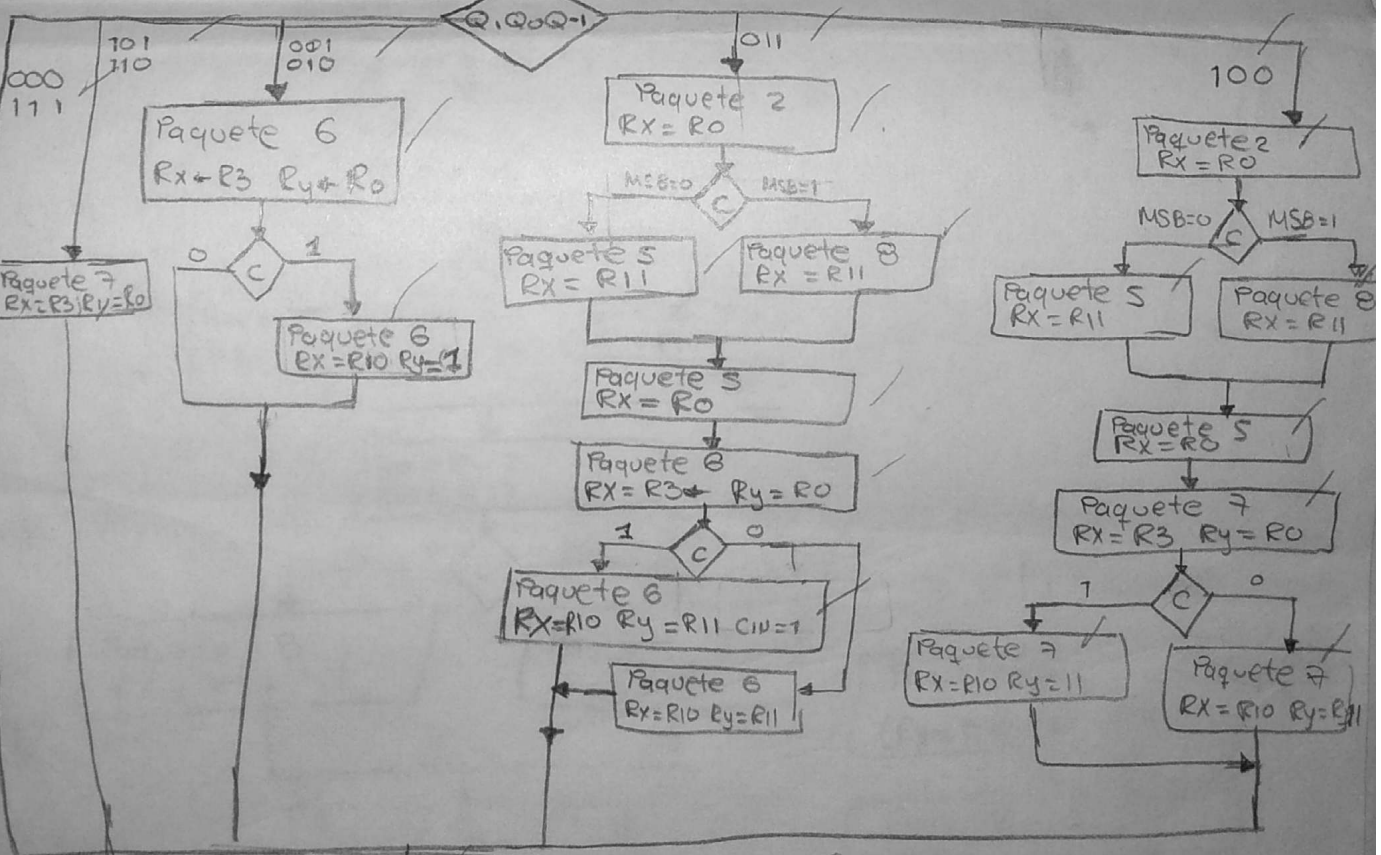
Paquete X

- ①  $RA \leftarrow RG, RB+1; WR6, WRA, WRB$
- ②  $RC \leftarrow RA \text{ AND } RB; ALU(11)$
- ③  $R20 \leftarrow RC; (1RC, WR20)$
- ④  $RA \leftarrow R20, RB+1; WR20, WRA, WRB$
- ⑤  $RC \leftarrow RA - RB; FC = \bar{C}; ALU(10), ENFC$

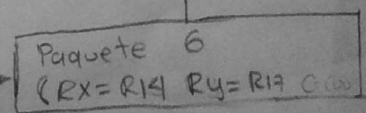
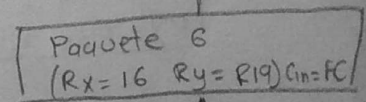
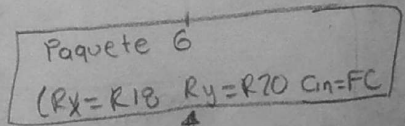
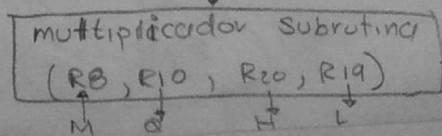
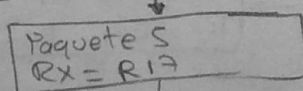
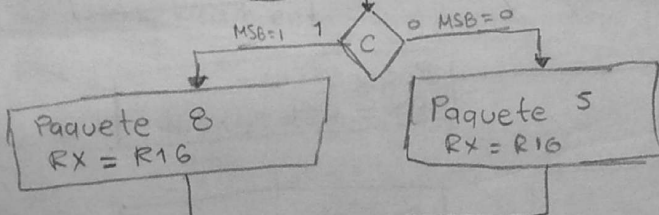
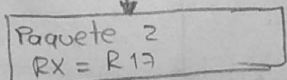
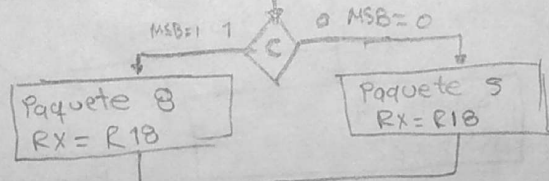
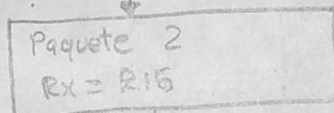
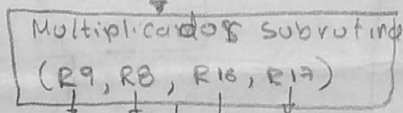
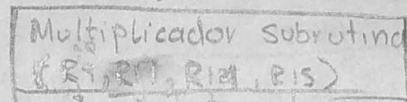
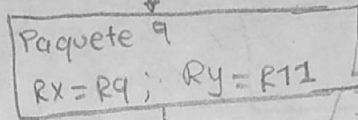
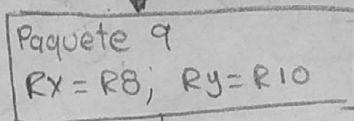
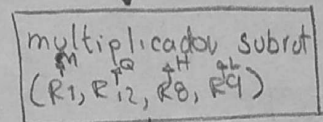
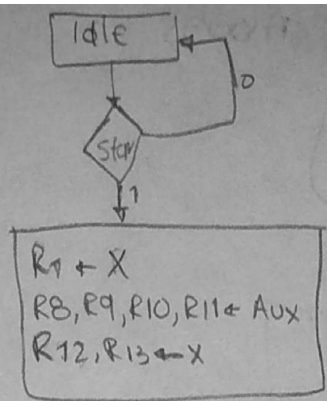
$A + 2M$



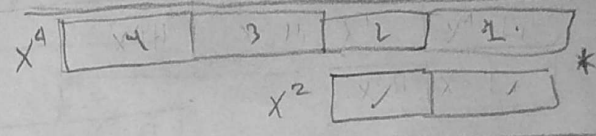
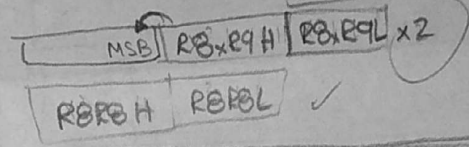
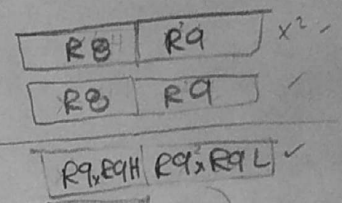
101010  
010101







$5 \times 5 = 25$   
 $X \times X = X^2$   
 $X^2 \times X^2 = X^4$   
 $X^4 \times X^2 = X^6$



$X^6$   
 FAITA  
 i fee

# Subrutina multiplicador

5.5 23  
25  
12.5  
50  
82.5

