

Paquete I Sumar LSB de R

- $RA \leftarrow 0$ $RB \leftarrow SHL(RX, 0)$
- $RC \leftarrow RA + RB$
- $RAUX \leftarrow RC$
- $RA \leftarrow 0$ $RB \leftarrow SHL(RAUX, 1)$
- $RC \leftarrow RA + RB$
- $RAUX \leftarrow RC$
- $RA \leftarrow RA$ $RB \leftarrow RAUX$
- $RC \leftarrow RA - RB$ $C \leftarrow COUT$

Si $C = 0 \rightarrow LSB = 1$
Si $C = 1 \rightarrow LSB = 0$

$P_1: 4,0$ $Pueba: 0,0$
 $P_2: 5,0$ $Pueba: 0$
 $P_3: 5,0$ $Pueba: 0,0$
 $P_4: 5,0$ $Pueba: 0$

$C = 4.2$

Paquete II Sumar MSB de R

- $RA \leftarrow RX$ $RB \leftarrow RX$
- $RC \leftarrow RA + RB$ $C \leftarrow COUT$

Si $C = 0$ $MSB = 0$
Si $C = 1$ $MSB = 1$

Paquete III Sumar $RX + RY$

- $RA \leftarrow RX$ $RB \leftarrow RY$
- $RC \leftarrow RA + RB$
- $RX \leftarrow RC$; $C \leftarrow COUT$

Paquete IV restar $RX - RY$

- $RA \leftarrow RX$ $RB \leftarrow RY$
- $RC \leftarrow RA - RB$
- $RX \leftarrow RC$; $C \leftarrow COUT$

Paquete V desplazar RX a la izquierda con 1

- $RA \leftarrow 0$ $RB \leftarrow SHL(RX, 1)$
- $RC \leftarrow RA + RB$
- $RX \leftarrow RC$

Paquete VI desplazar RX a la izquierda con 0

- $RA \leftarrow 0$ $RB \leftarrow SHL(RX, 0)$
- $RC \leftarrow RA + RB$
- $RX \leftarrow RC$

Paquete VII desplazar RX a la derecha con 1

- $RA \leftarrow 0$ $RB \leftarrow SHR(RX, 1)$
- $RC \leftarrow RA + RB$
- $RX \leftarrow RC$

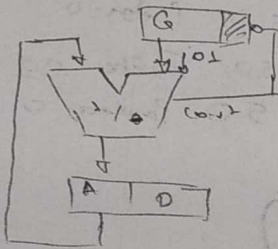
Paquete VIII desplazar RX a la derecha con 0

- $RA \leftarrow 0$ $RB \leftarrow SHR(RX, 0)$
- $RC \leftarrow RA + RB$
- $RX \leftarrow RC$

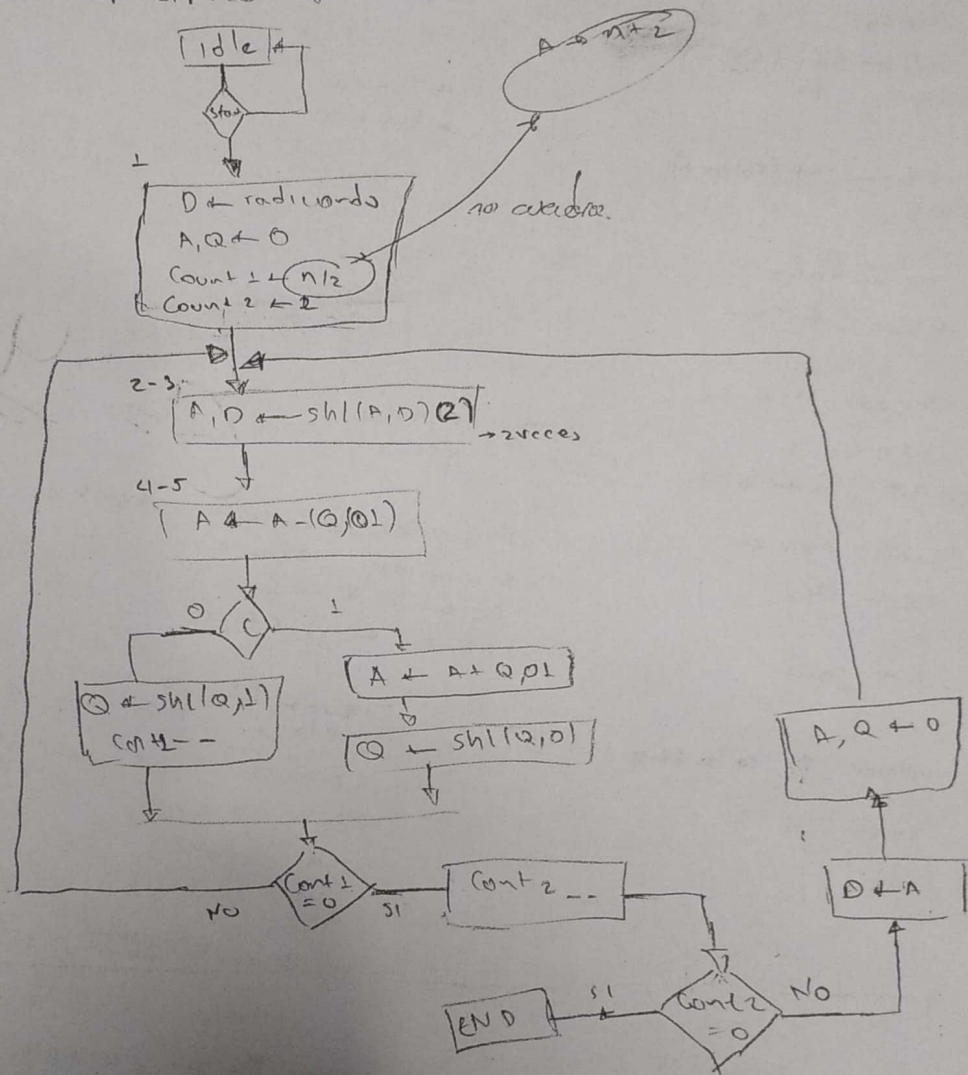
Paquete IX transferir $ARY \leftarrow RY$

- $RA \leftarrow RX$ $RB \leftarrow 0$
- $RC \leftarrow RA + RB$
- $RY \leftarrow RC$

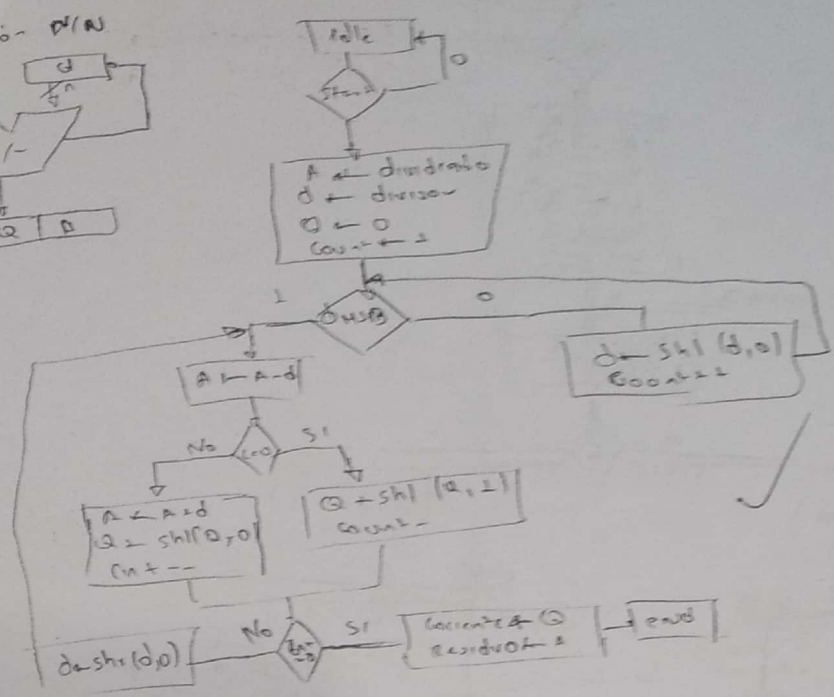
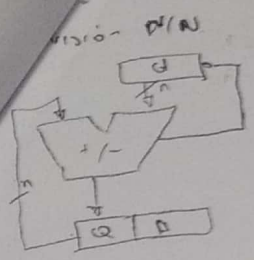
Ponto 1. datapath especifico para $x^{3/4}$



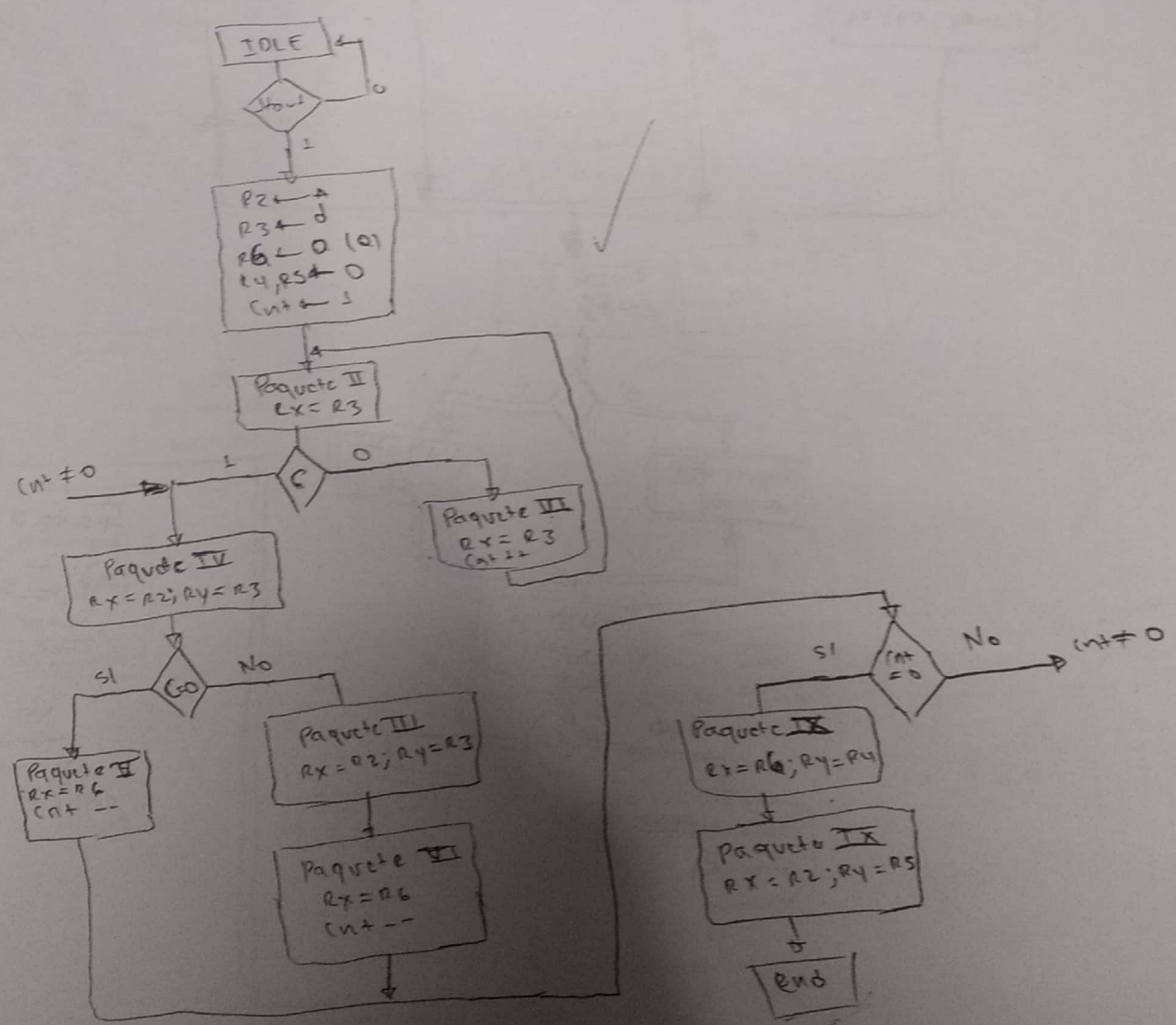
4,0



5.0



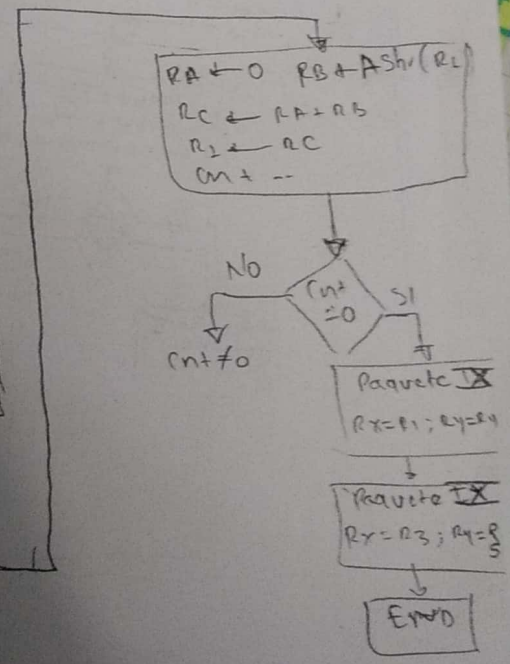
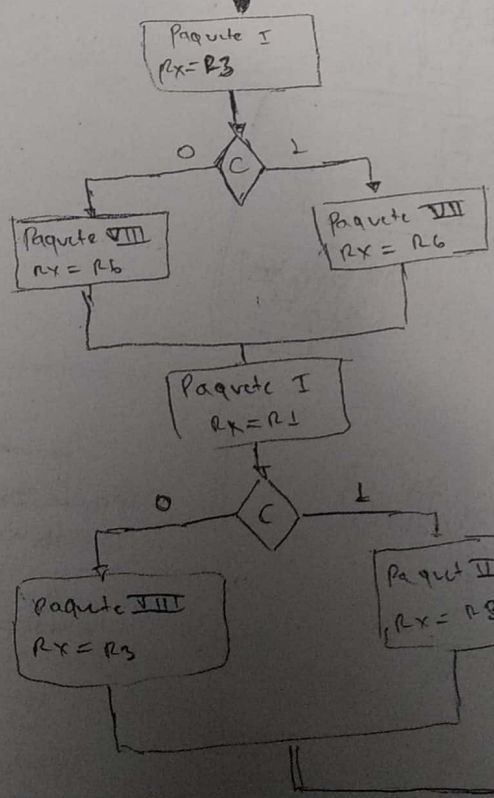
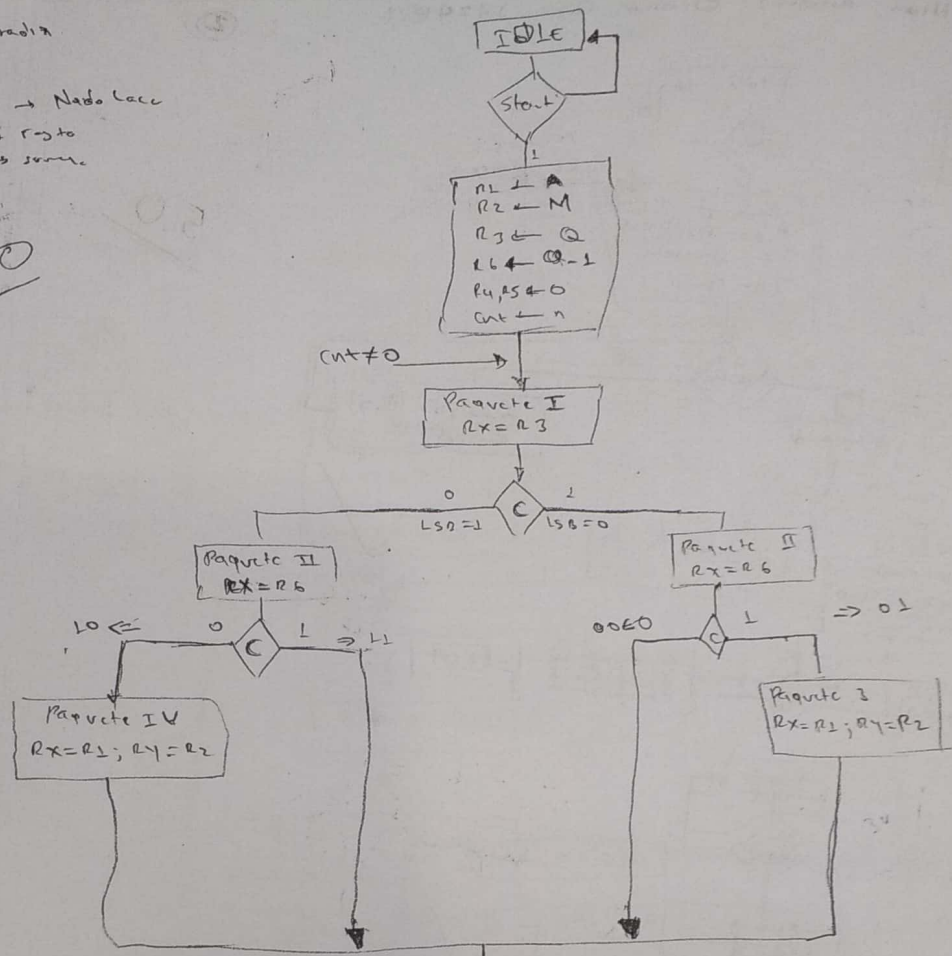
Controlled



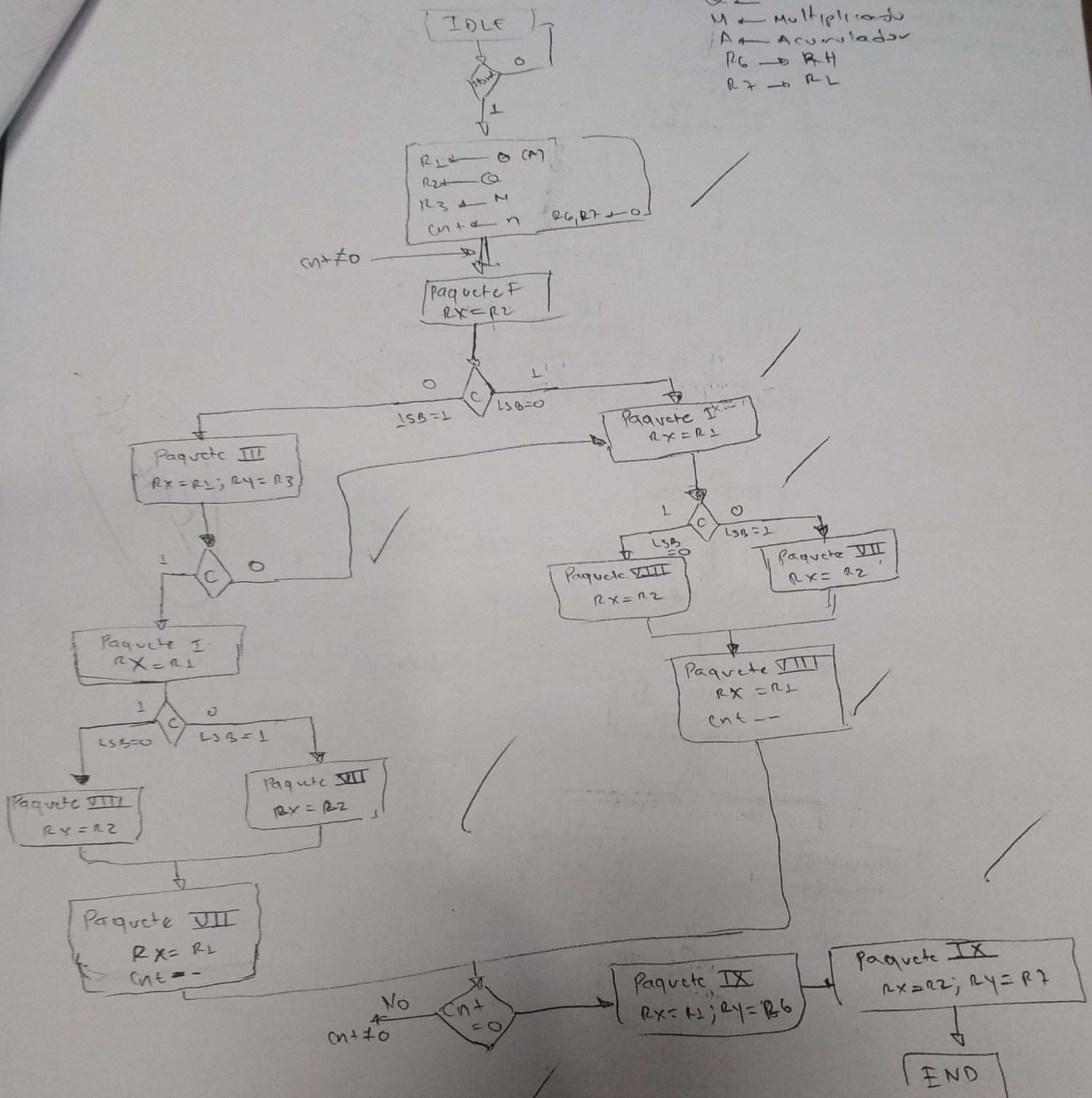
③ length routing

IL, 00 → Node Lacc
 10 → right
 01 → source

5,0



Q ← Multiplier
M ← Multiplier
A ← Accumulator
R6 → RH
R7 → RL



Guatemala de escritorio

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(9)

Division M/N

Carry	CNT	R2	R3	R4	R5	RA	RB	RC
1	1	110111	000111	0	0	0	0	0
2	1							
3	1							
4	1							
5	1							
6	2		001110					
7								
8	1							
9	1							
10	1							
11	3		011100					

~~2.5~~
2.5

① R2 X^{1/4}

Carry	CNT	Cnt	A	D	G
1	3	2	000000	101010	000000
2			0000001	010100	
3			0000010	101000	
4			0000001		
5					000001
6	2				
7			0000001	010000	
8			00001010	100000	
9					00001011
10			0000001		
11					000011
12	1				

$$4^{1/2} = \frac{0000010}{0000001} = 000001$$

Incomplete !!

$$4^{1/2} = \frac{00001010}{0000001} = 0000101$$

~~2.5~~

2.5

10%