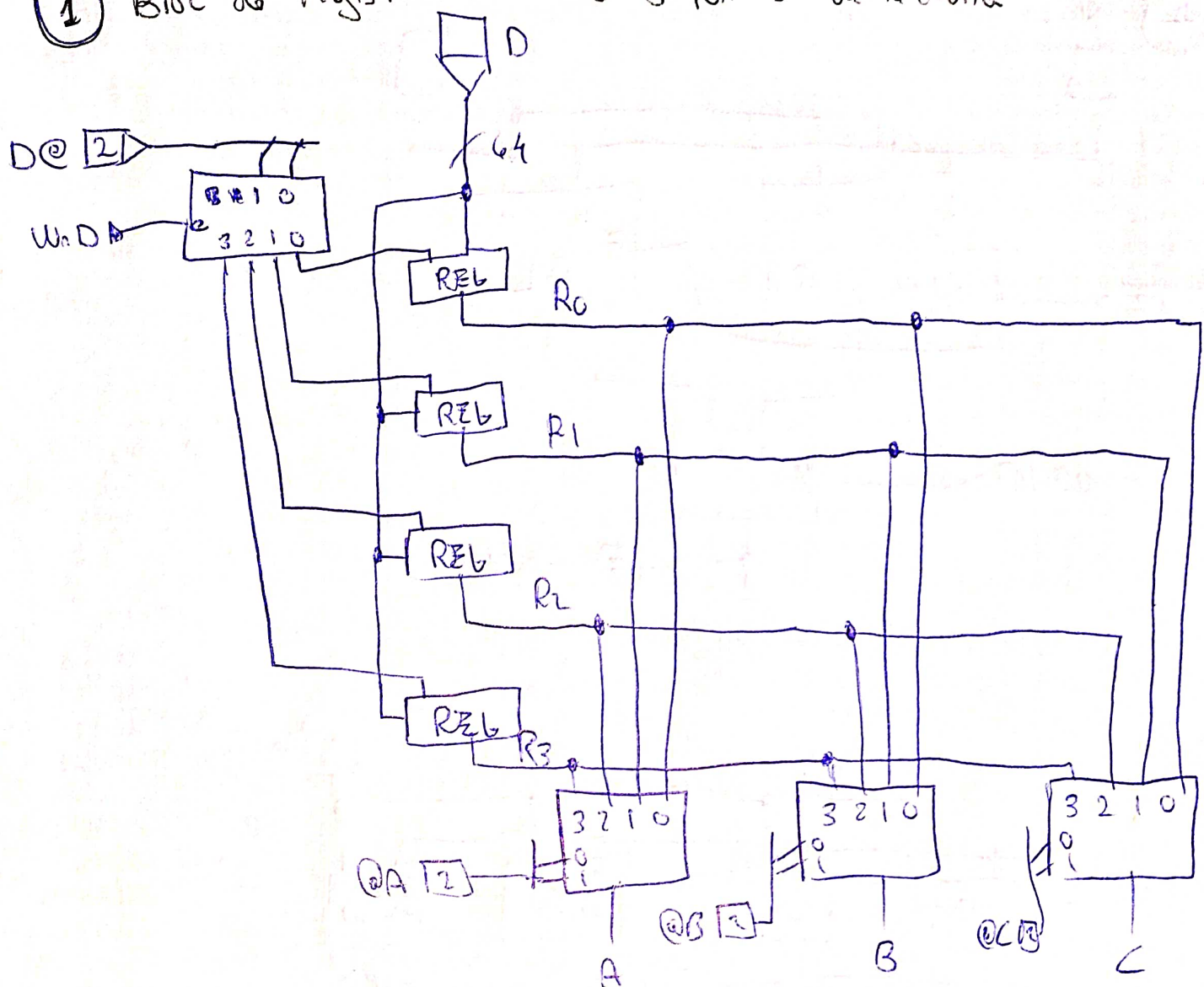


Albert Comas

ACTIVITATS T.8

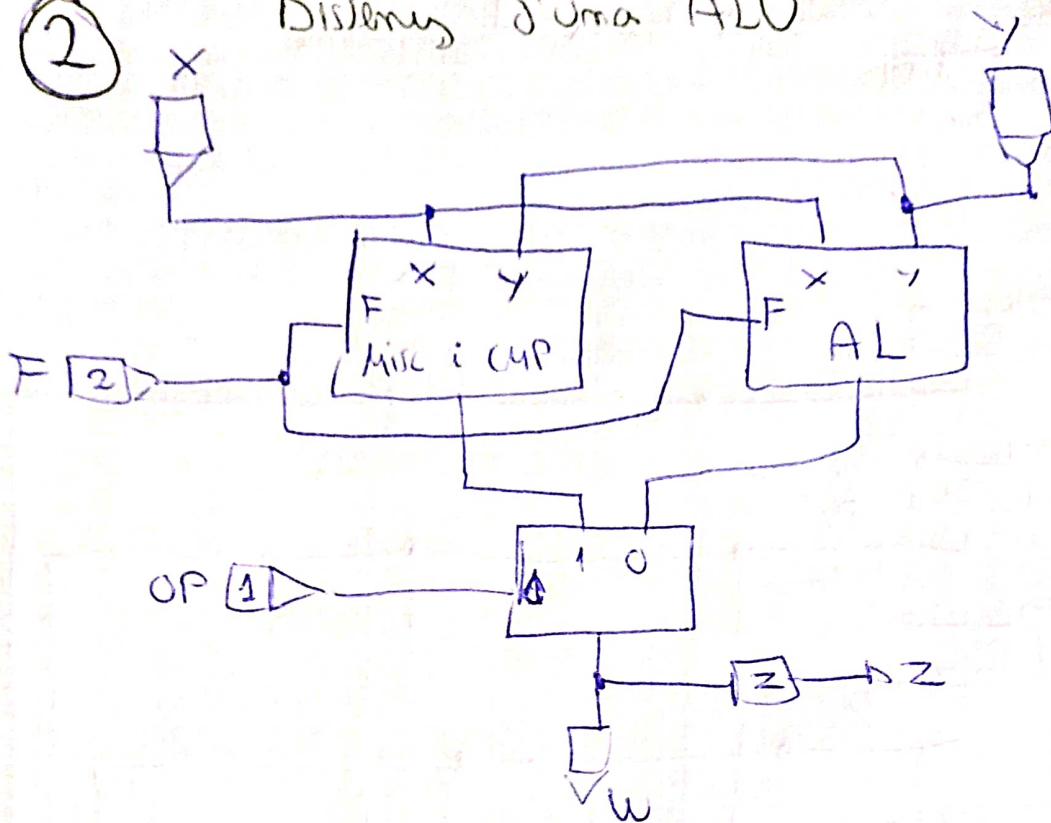
Grup: 20

① Bloc de registres amb 3 portes de lectura

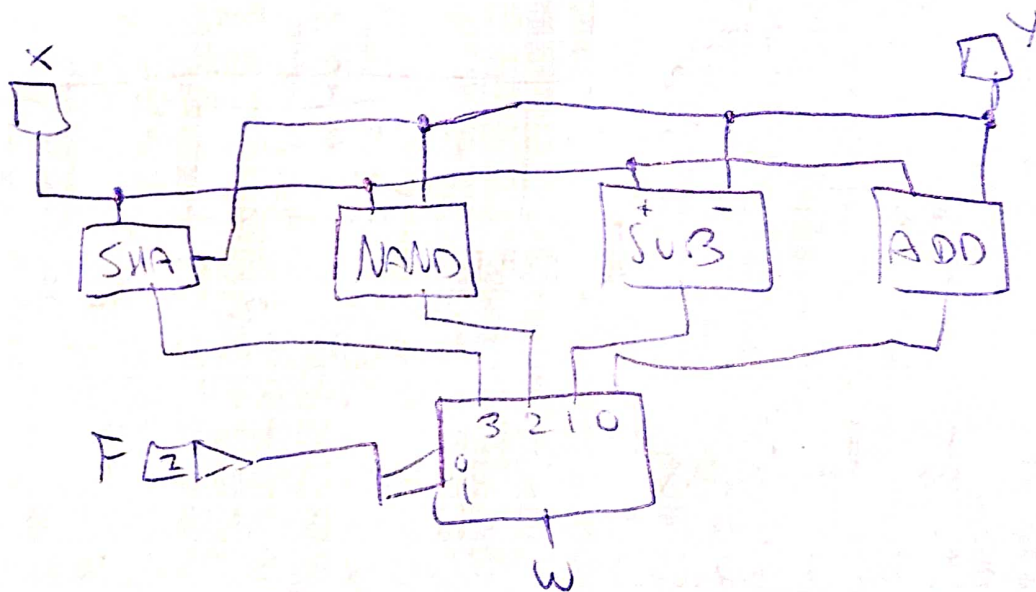


②

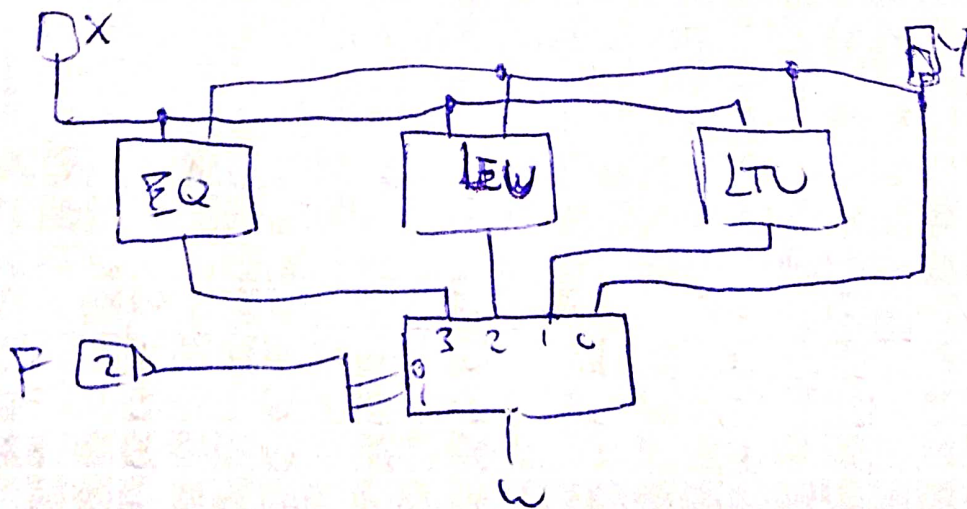
Dislexing d'uma ALU



AL



Misc i CMP

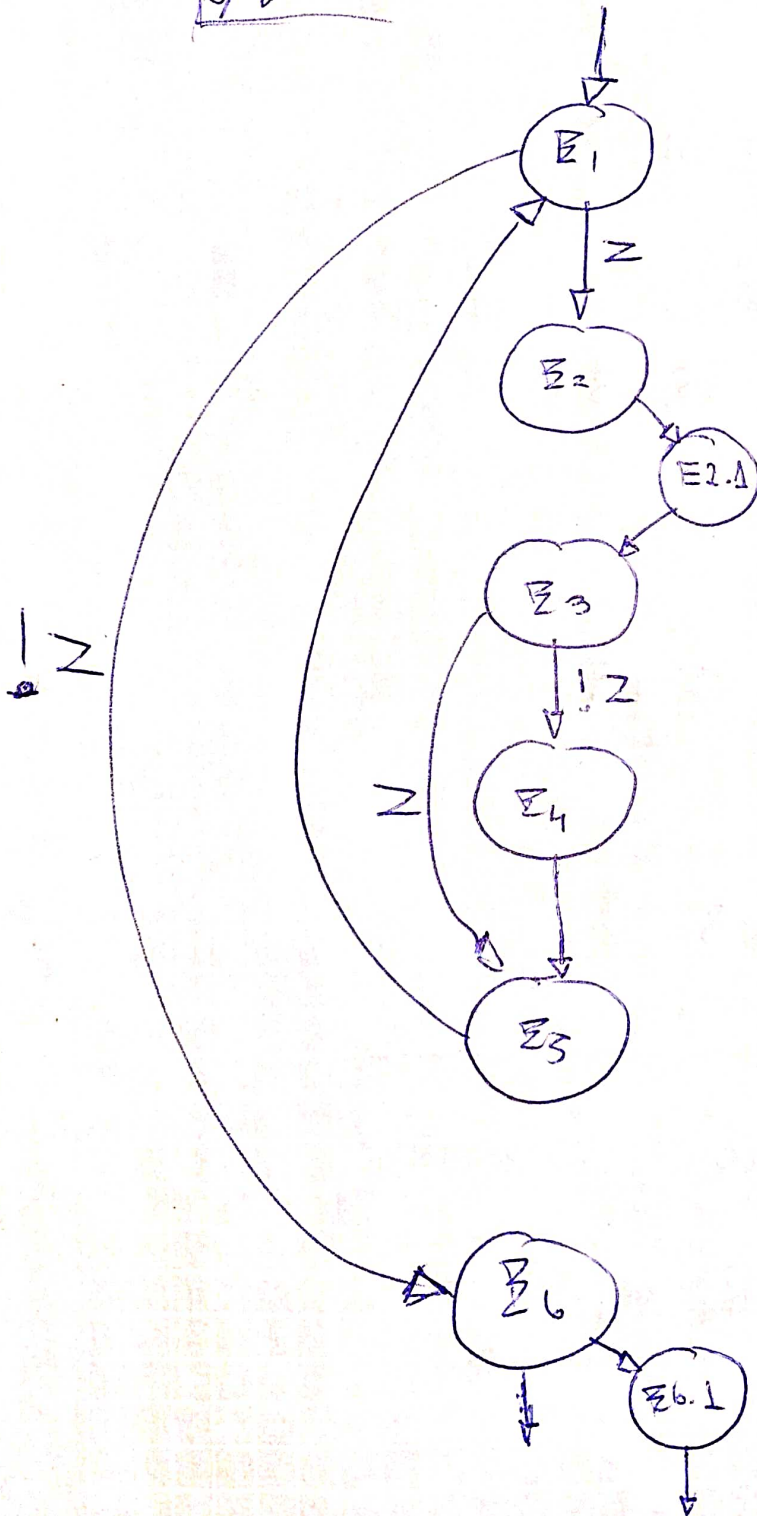


\overline{Z} = False
 $\overline{!Z}$ = True

(3)

~~00100~~
~~010001~~ = 8

Divide /2 in displacement 1 form
 a b data \Rightarrow shift right



CMP EQ -, R5, R4

SHAI R2, R2, -2

SUBT R2, R2, 1

CMP LEUI -, R2, 3

ADD R1, R1, R4

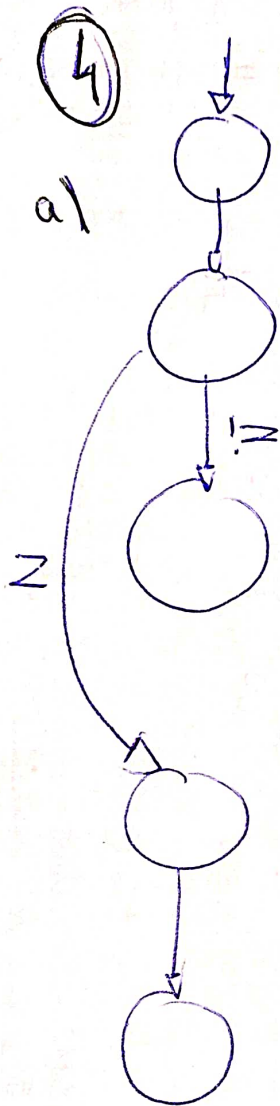
ADDI R5, R5, 1

SHLI R3, R3, 1

ADDI R3, R3, 1

$Z = \text{false}$
 $!Z = \text{true}$

$R_1, Z = R_4$
 $R_4 \leftarrow R_1$



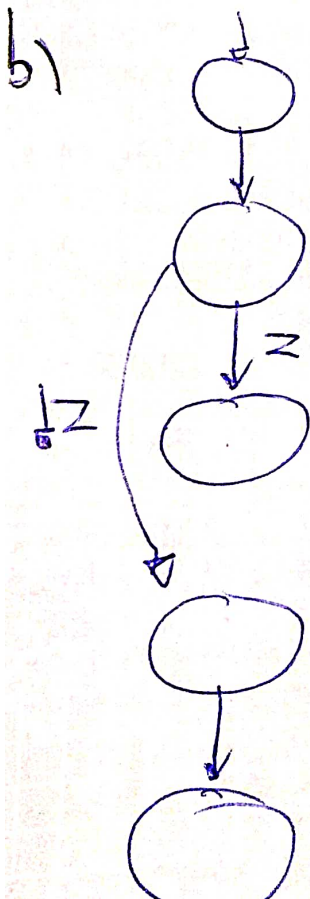
MOVET R4, 50

CMPLEU -, R1, R4

SHLT R3, R5, -3

SUBT R3, R5, +19

MOVZ R6, R3



MOVET R4, 50

CMPLTU R1, R4, R1

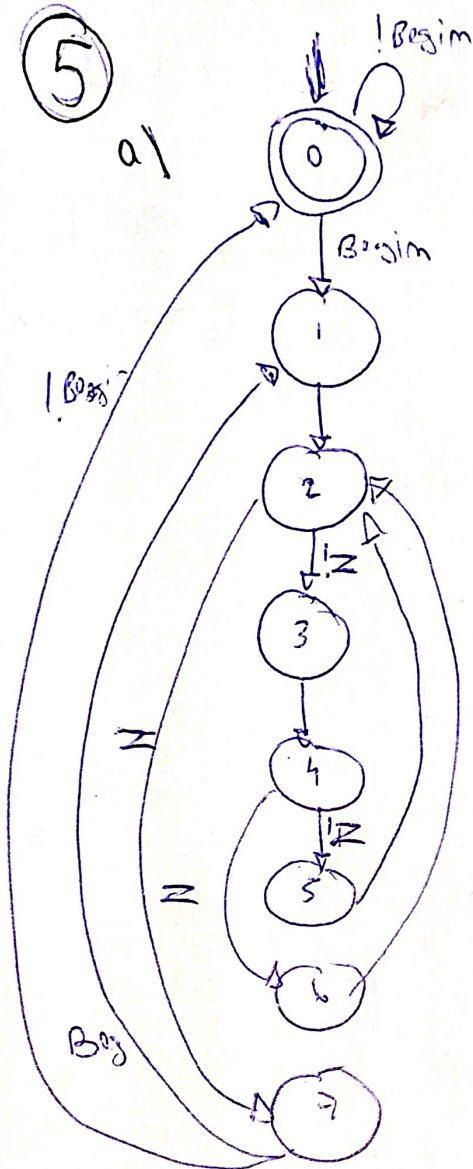
SHLT R3, R5, -3

SUBT R3, R5, +19

MOVZ R6, R3

5

a)



IN R0 // End = 0

IN R1 // End = 0

SUBI R0, R0, 1 // End = 0

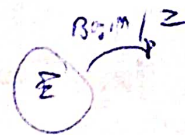
IN R2 // End = 0

CMPLT R0, R1, R2 // End = 0

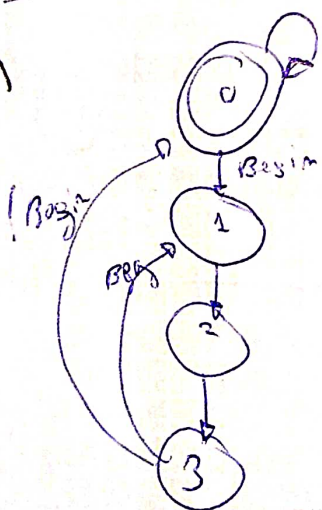
MOVE R1, R2 // End = 0

MP // End = 0

OUT R1 // WR0 // End = 1



b)

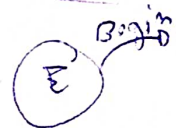


IN R0 // End = 0

OUT R0, R0 // End = 0

ADDI R0, R0, 1 // End = 0

OUT R0 // WR0 // End = 1



c) No is not for Porque no podem entrar 2 dados em um matrix cide.

$\left(\begin{array}{c} \text{IN R0} // \text{IN R1} // \text{End} = 0 \end{array} \right)$ im correto

⑦ Continúguet de los ROMs

z = 1
f(z)
falso

z = 0
f(!z)
Verdadero

b ₁	b ₀	z	b ₁ ⁺	b ₀ ⁺	hexa
0	0	0	0	1	0x01
0	0	1	1	0	0x02
0	1	0	1	0	0x02
0	1	1	1	0	0x02
1	0	0	1	1	0x03
1	0	1	0	1	0x03
1	1	0	0	0	0x00
1	1	1	0	0	0x00

Rom a +

ROM OUT

b ₁	b ₀	Hexa ROM OUT
0	0	0x0824A000
0	1	0x2B110FABC
1	0	0x0CA70FFFE
1	1	0x00000000