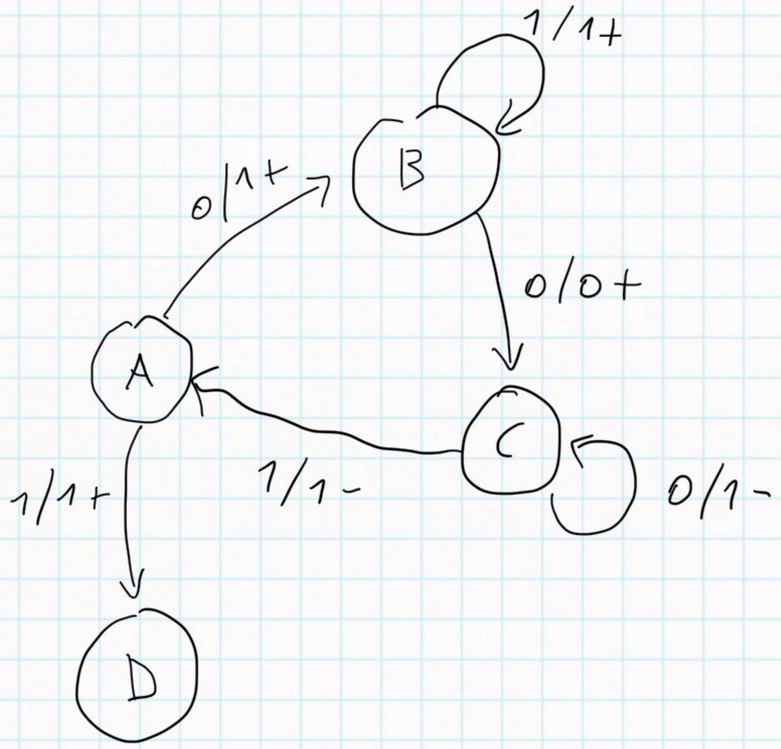
COMPITO 12/02/2020

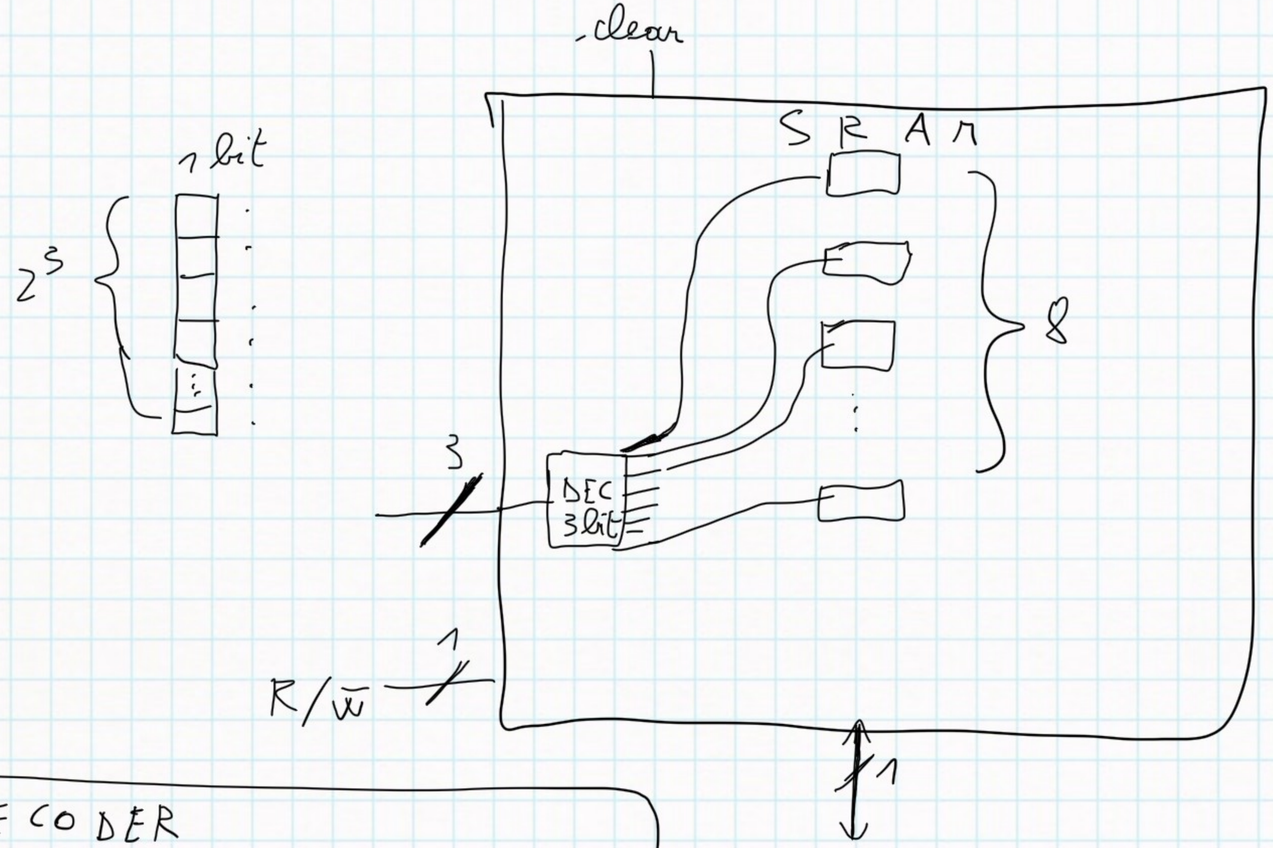
ES 1.1

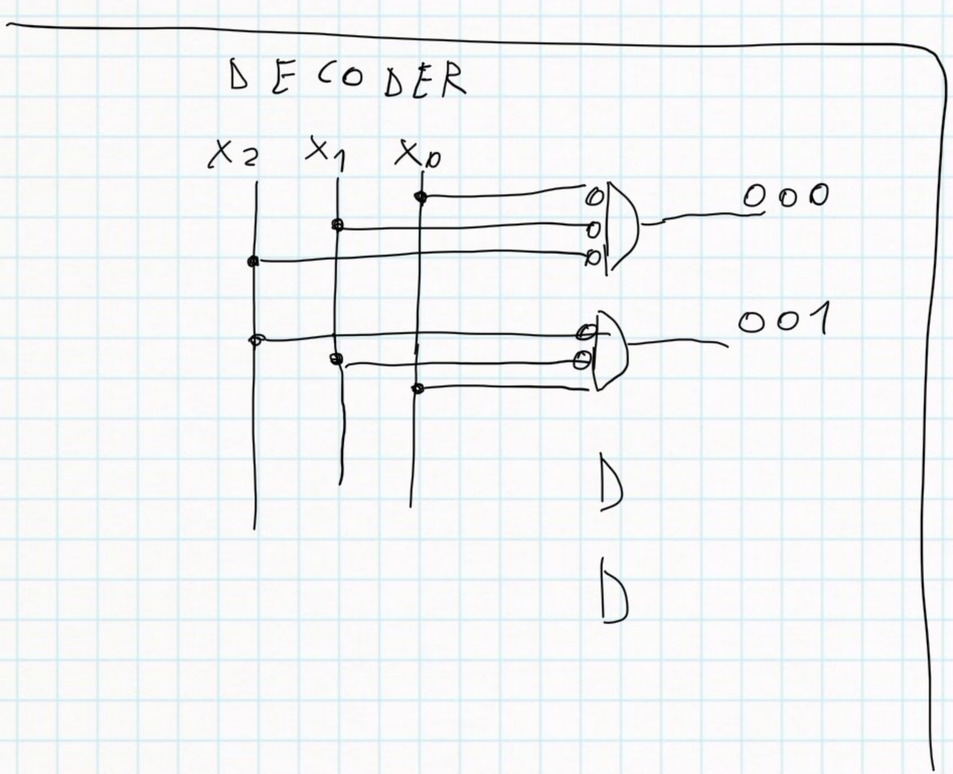


S	X	Z	V	TAPE
A	0	1	+	0000000
B	0	0	+	10
C	0	1	-	100
C	0	1	-	101
C	1	1	-	111 ←
A	0	1	+	0111 ←
B	1	1	+	1111
B	1	1	+	1111
B	1	1	+	11111
B	0	0	+	11110
C	0	1	-	111100
C	0	1	-	111101
C	1	1	-	111111
A	1	1	+	1111111
D	/	/		1111111

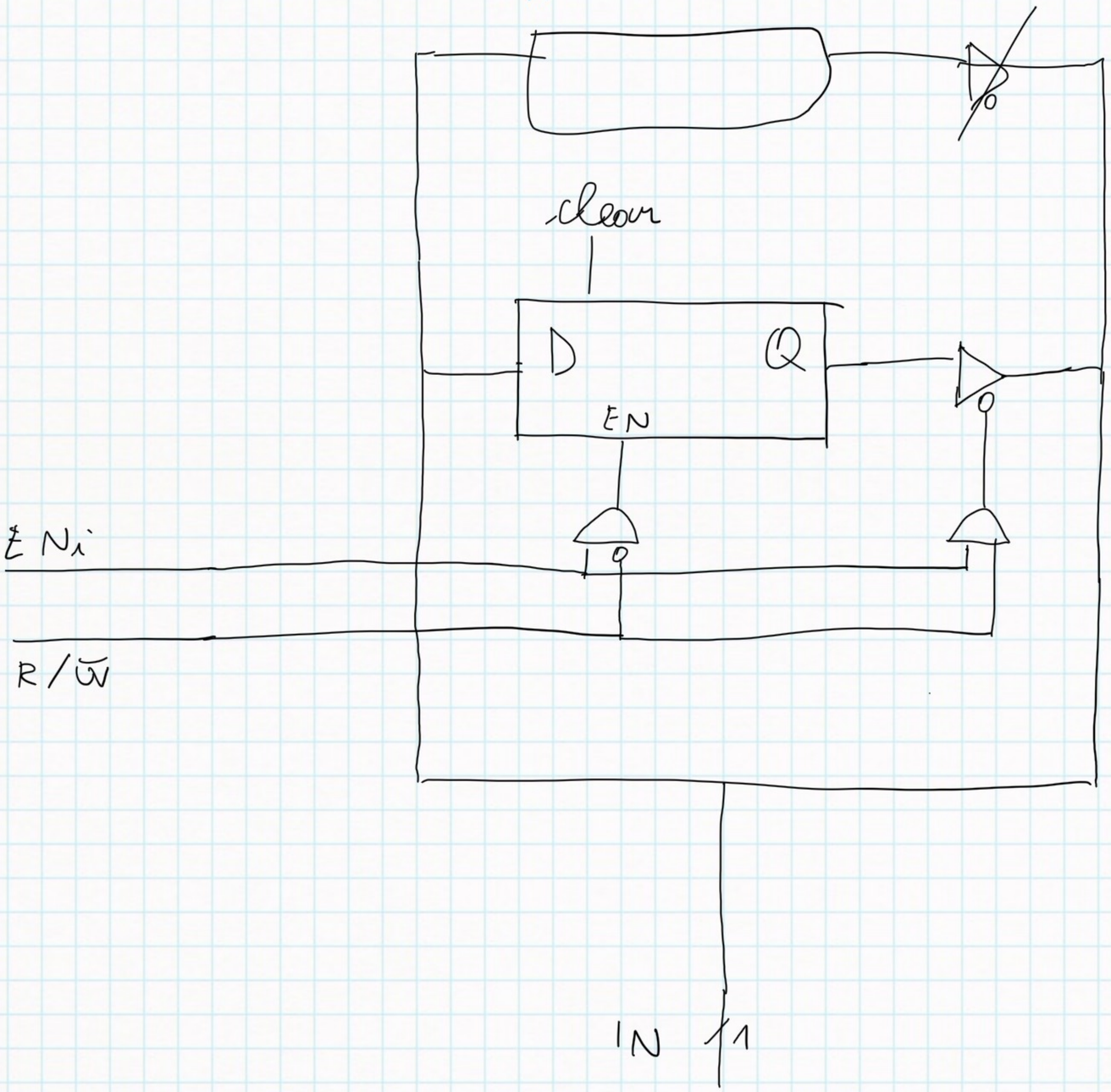
0 1 2 3 4 5 6 7

ES 1.2

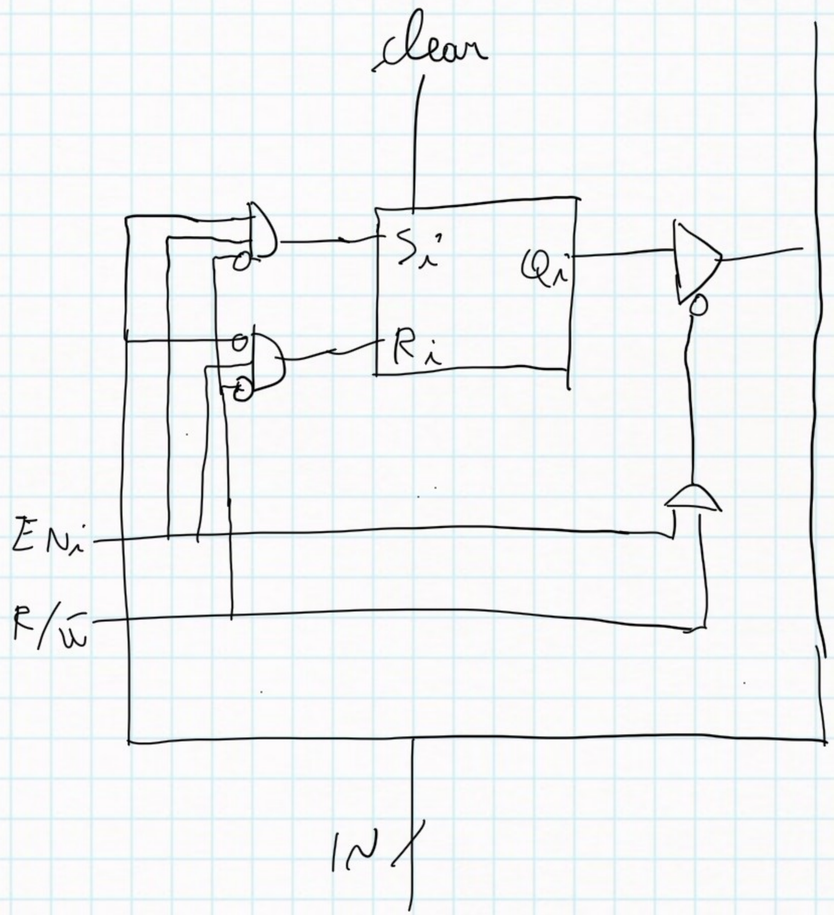




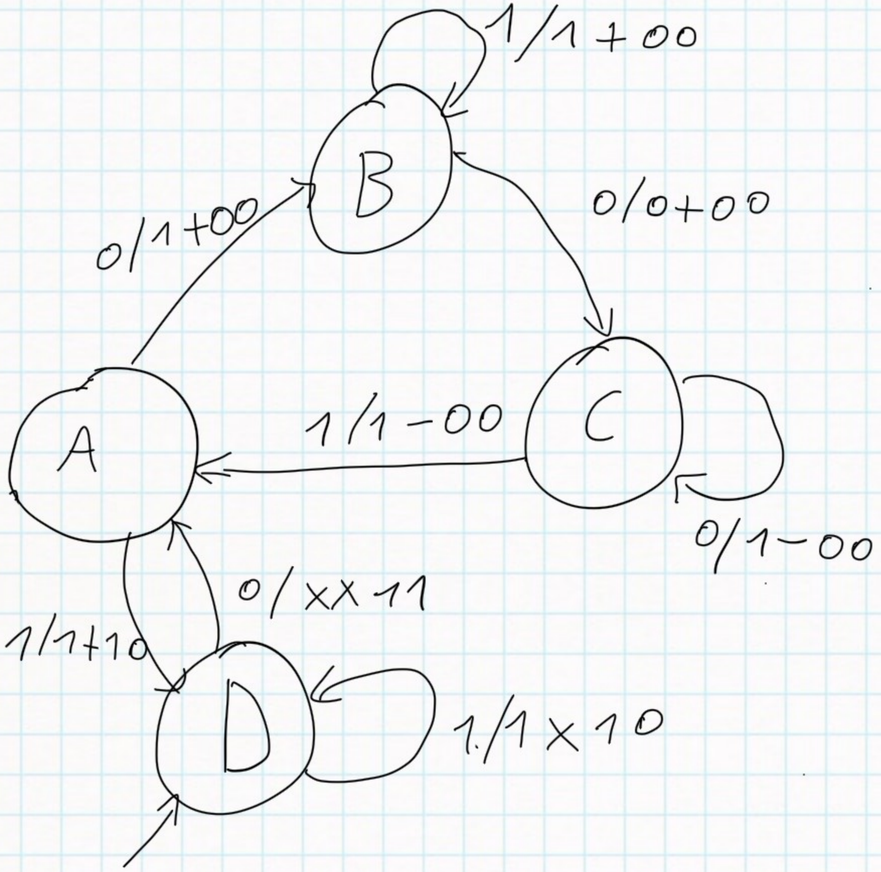
SRAM CON FLIP-FLOP



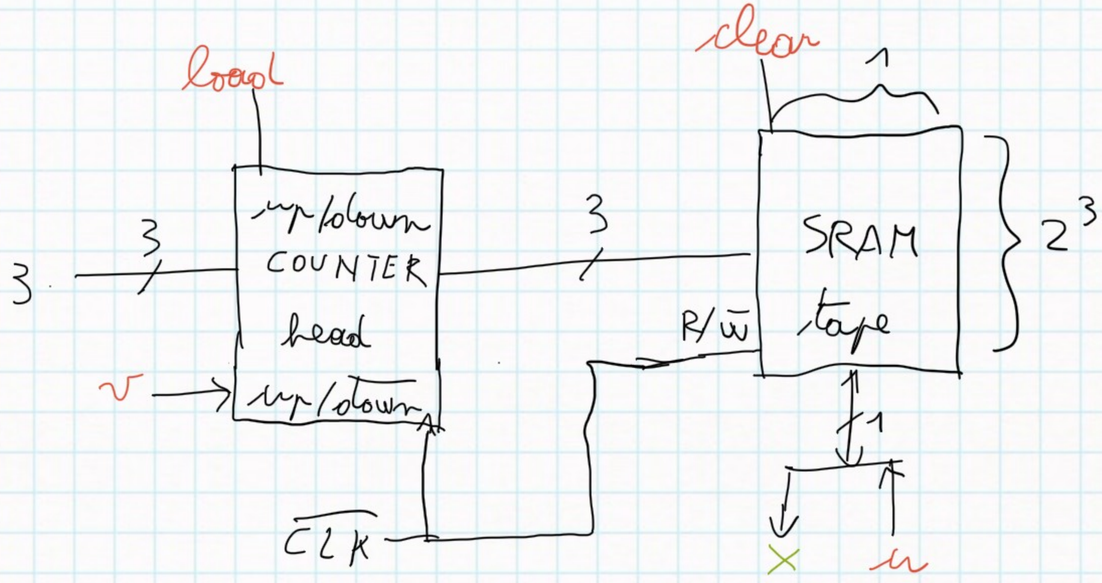
SRAM CON LATCH

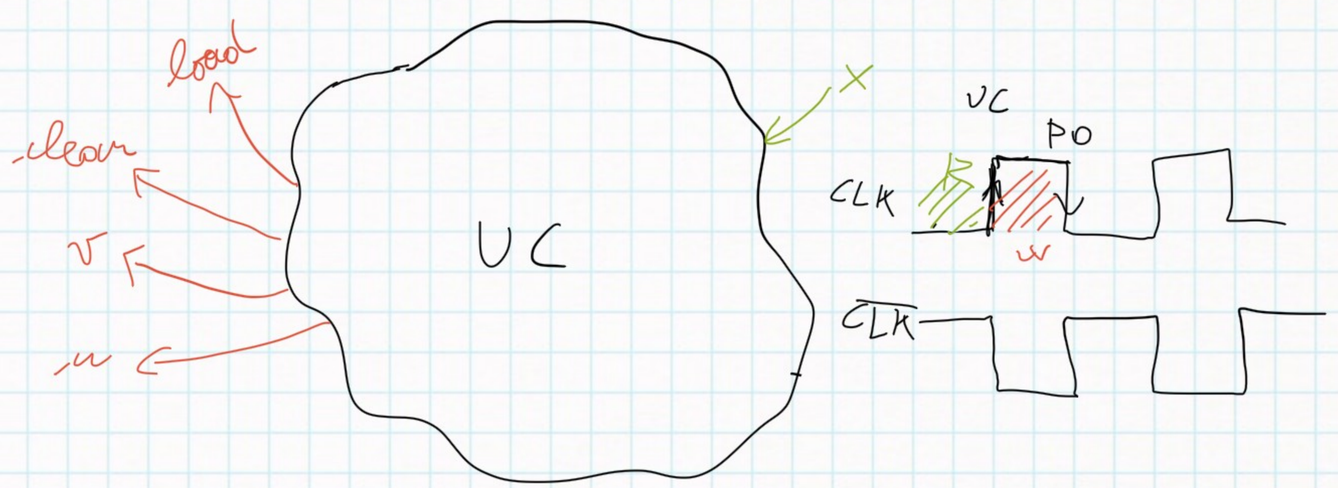


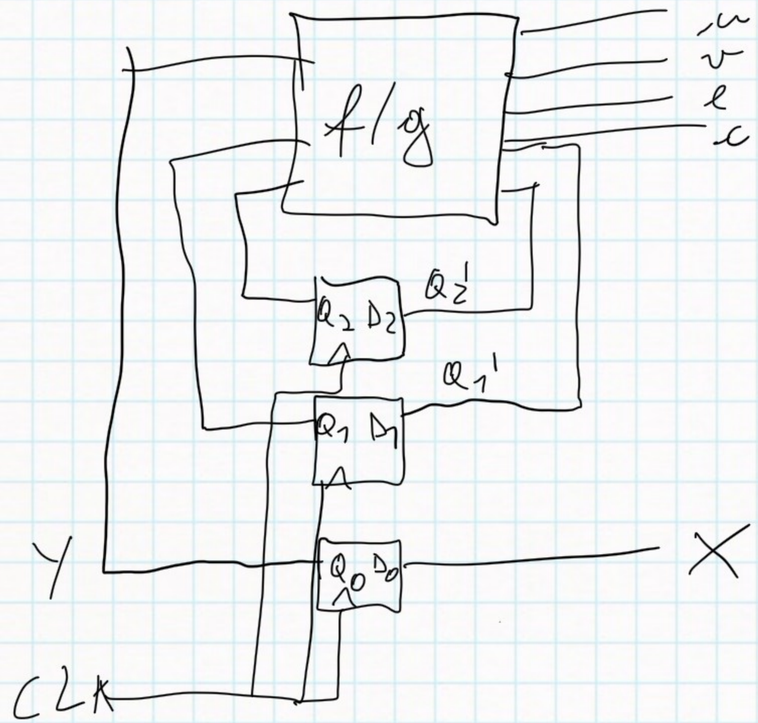
ES 1.3



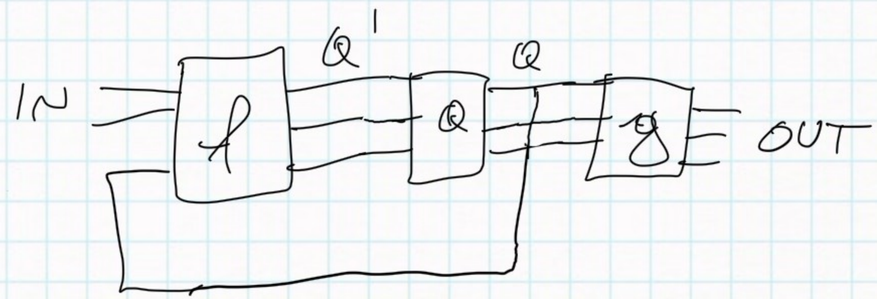
(y)x	w	v	e	c
0/1	+	1	1	



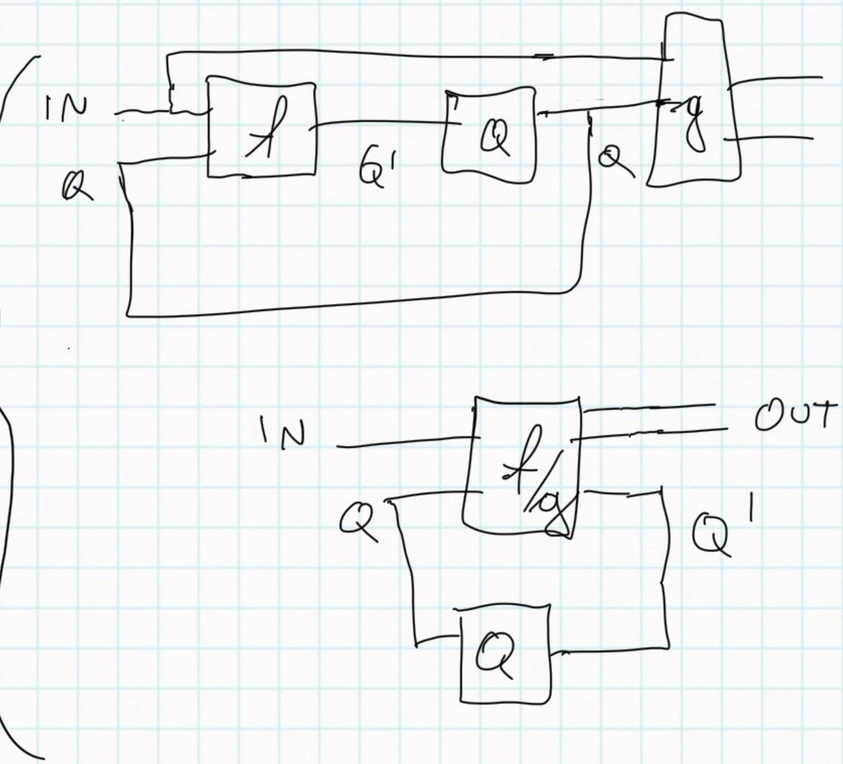




Moore



Mealy



f

Q_2 Q_1 X	Q_2' Q_1'

Q_2 Q_1 X	g

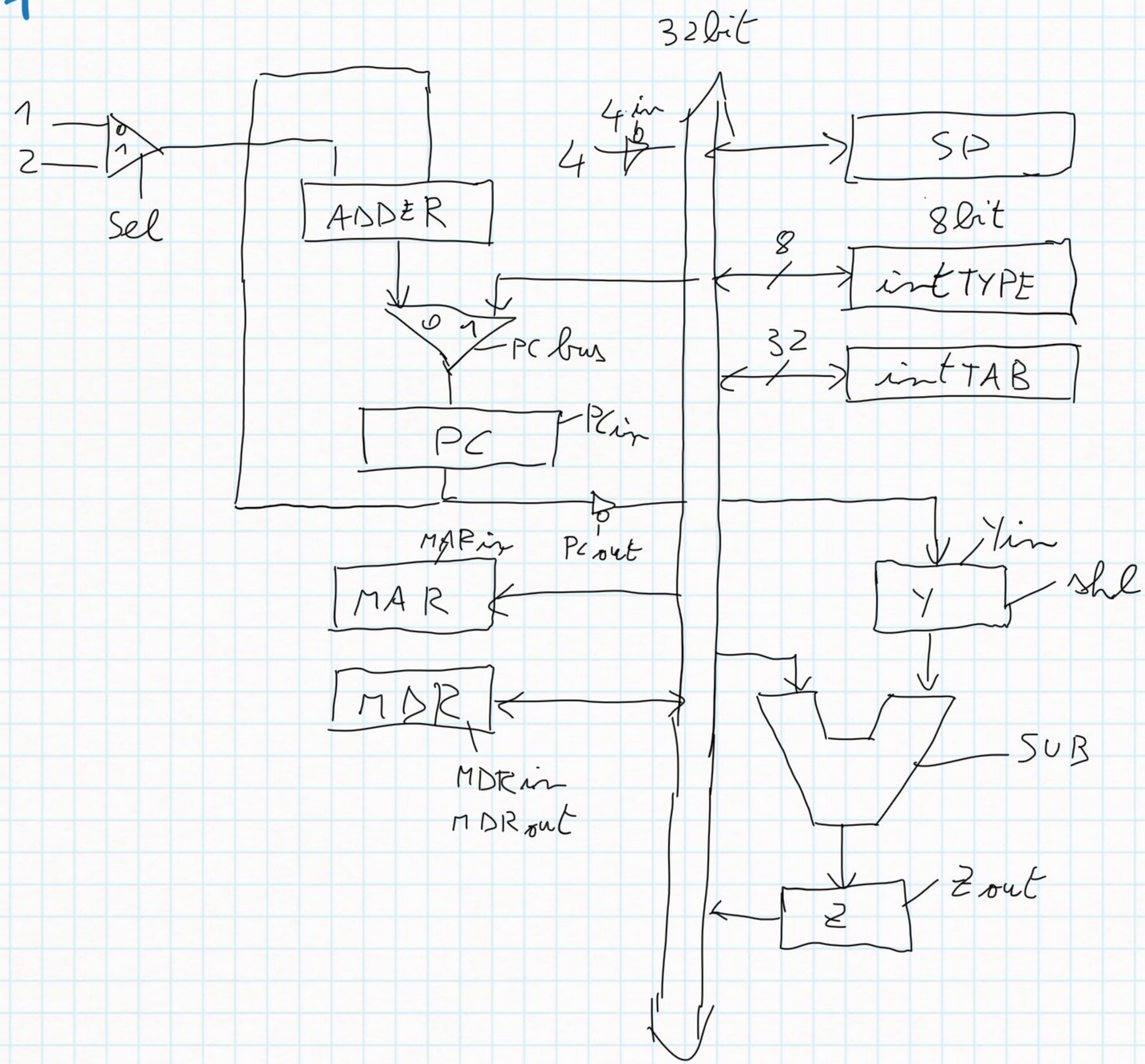
f/g

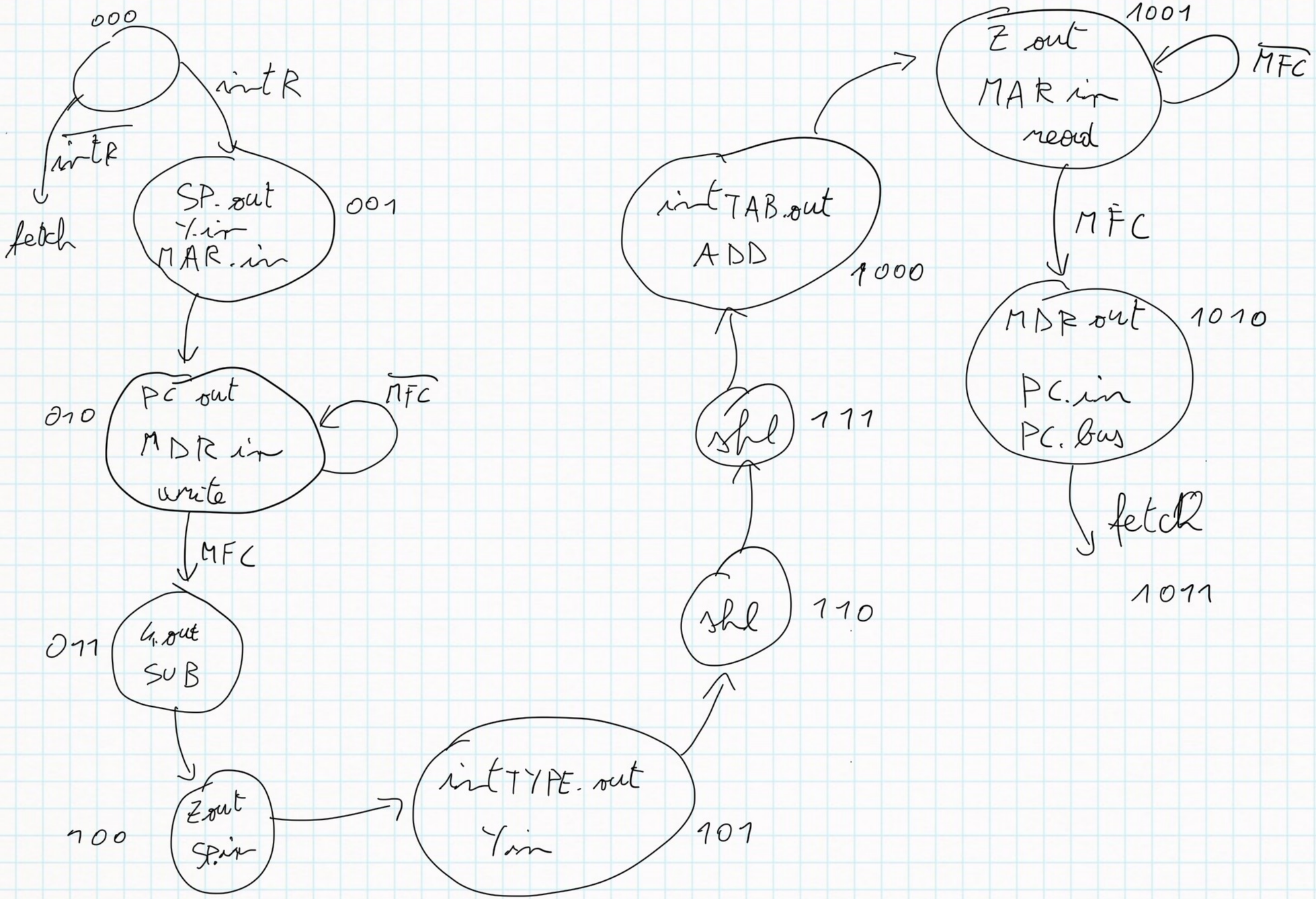
Q_2 Q_1 X	Q_2' Q_1' u v c l

Q_2 Q_1	$Q_0(y)$	h	x	tape	Q_2' Q_1'	u	v	bool	clear
D	0	x	x	xxxxxxxx	A	x	x	1	1
		3	0	↓					
A	0			1	B	1	1	0	0

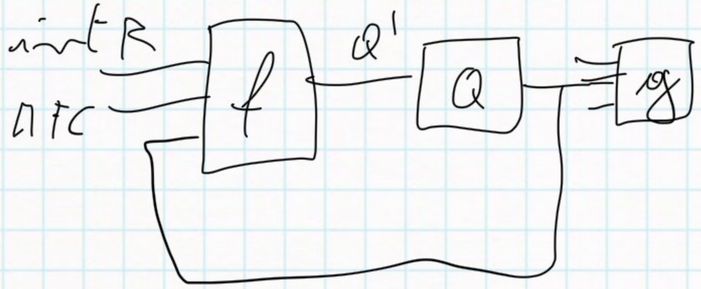
COMPITO 8 LUGLIO 2019

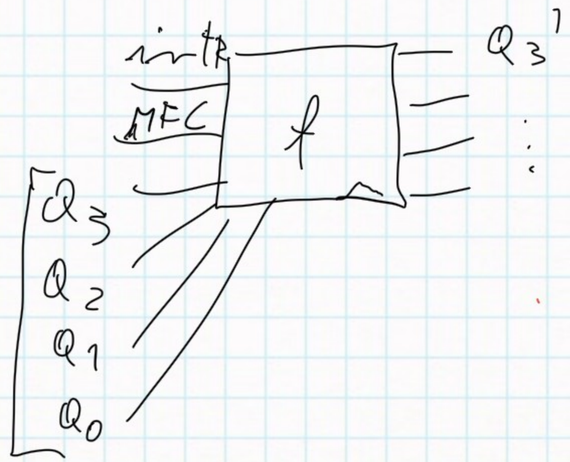
ES 1

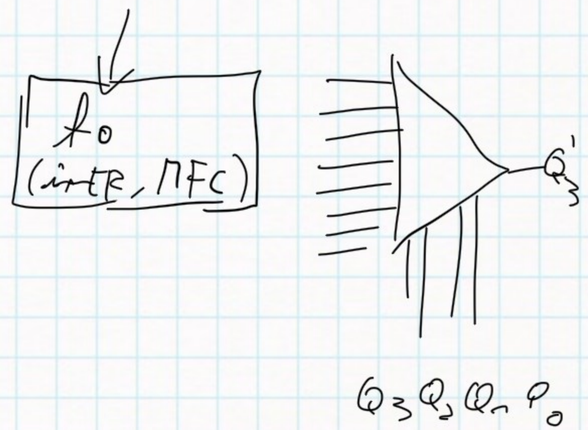



000
intR
intR
fetch
SP. out
Y. in
MAR. in
001
010
PC out
MDR in
write
MFC
MFC
011
4. out
SUB
100
Z out
SP. in
intTYPE. out
Y in
101
shl
110
shl
111
intTAB. out
ADD
1000
Z out
MAR in
read
1001
MFC
MFC
MDR out
PC. in
PC. bus
1010
fetch
1011

ES 2







0000

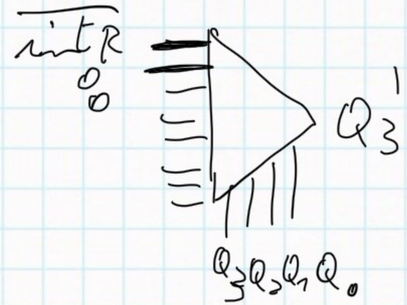
intR	Q_3'	Q_2'	Q_1'	Q_0'
0	1	0	1	1
1	0	0	0	1
	$\overline{intR}$ 0		$\overline{intR}$ 1	

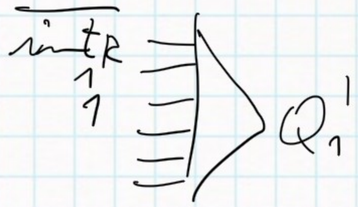
0001

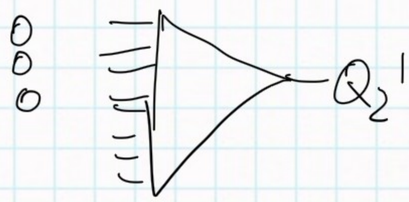
0	0	1	0

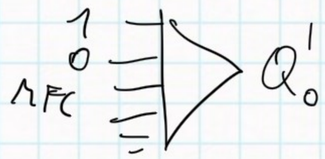
0010

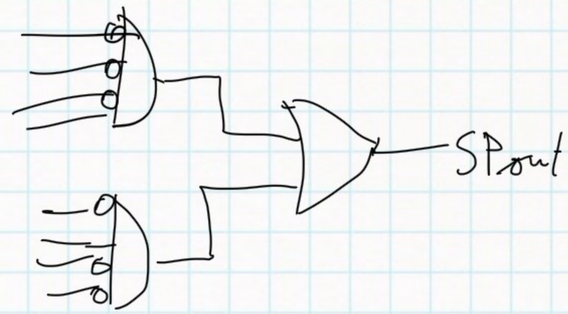
MFC				
0	0	0	1	0
1	0	0	1	1
	0	0	1	MFC









	SPout	Yin	MARin	PCout	MDRin	Write	Aout	SUB
0000								
0001	1	1	1					
0010				1	1	1		
0011							1	1
0100	1							

$$SPout = \overline{\bar{Q}_3 Q_2 Q_1 Q_0 + \bar{Q}_3 Q_2 \bar{Q}_1 \bar{Q}_0}$$