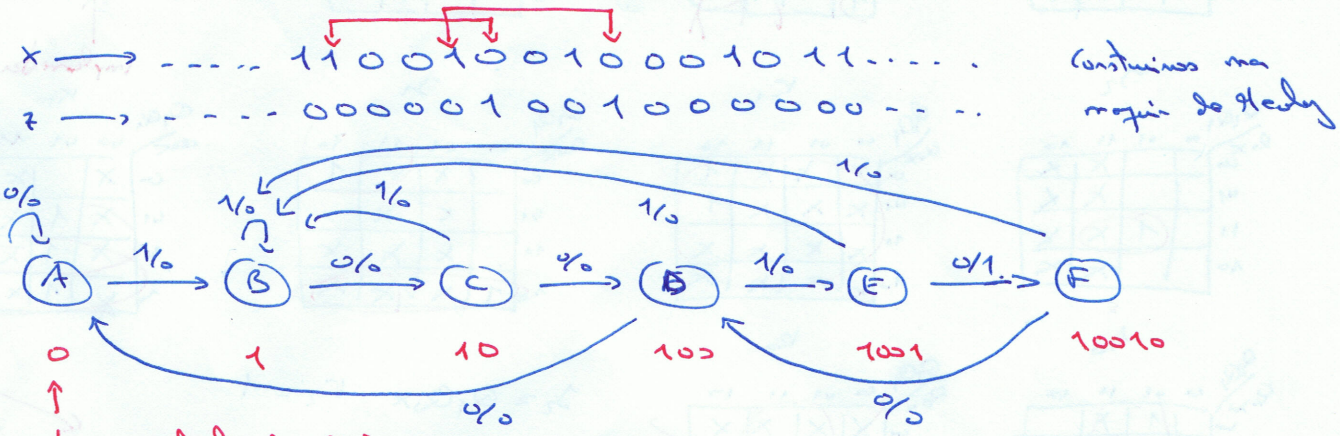
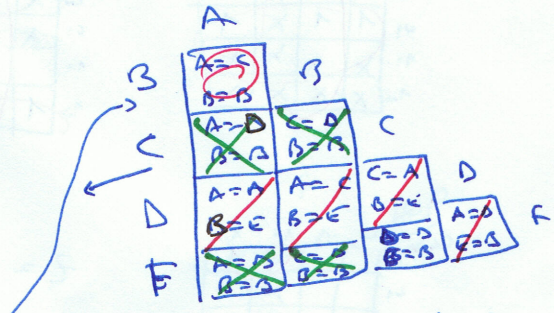
3 Dissenyeu un detector per la seqüència ..10010.. que pot estar solapada. La sortida ha de ser 1 en el moment de rebre el darrer 0.



Q_n	Q_{n+1}/z x=0	x=1	
A	A/0	B/0	00
B	C/0	B/0	00
C	D/0	B/0	00
D	A/0	E/0	00
E	F/1	B/0	10
F	D/0	B/0	00

C = F



5 estados
111
3 FF

A = 000
B = 001
C = 010
D = 011
E = 100

elección arbitraria (puede haber una mejor)

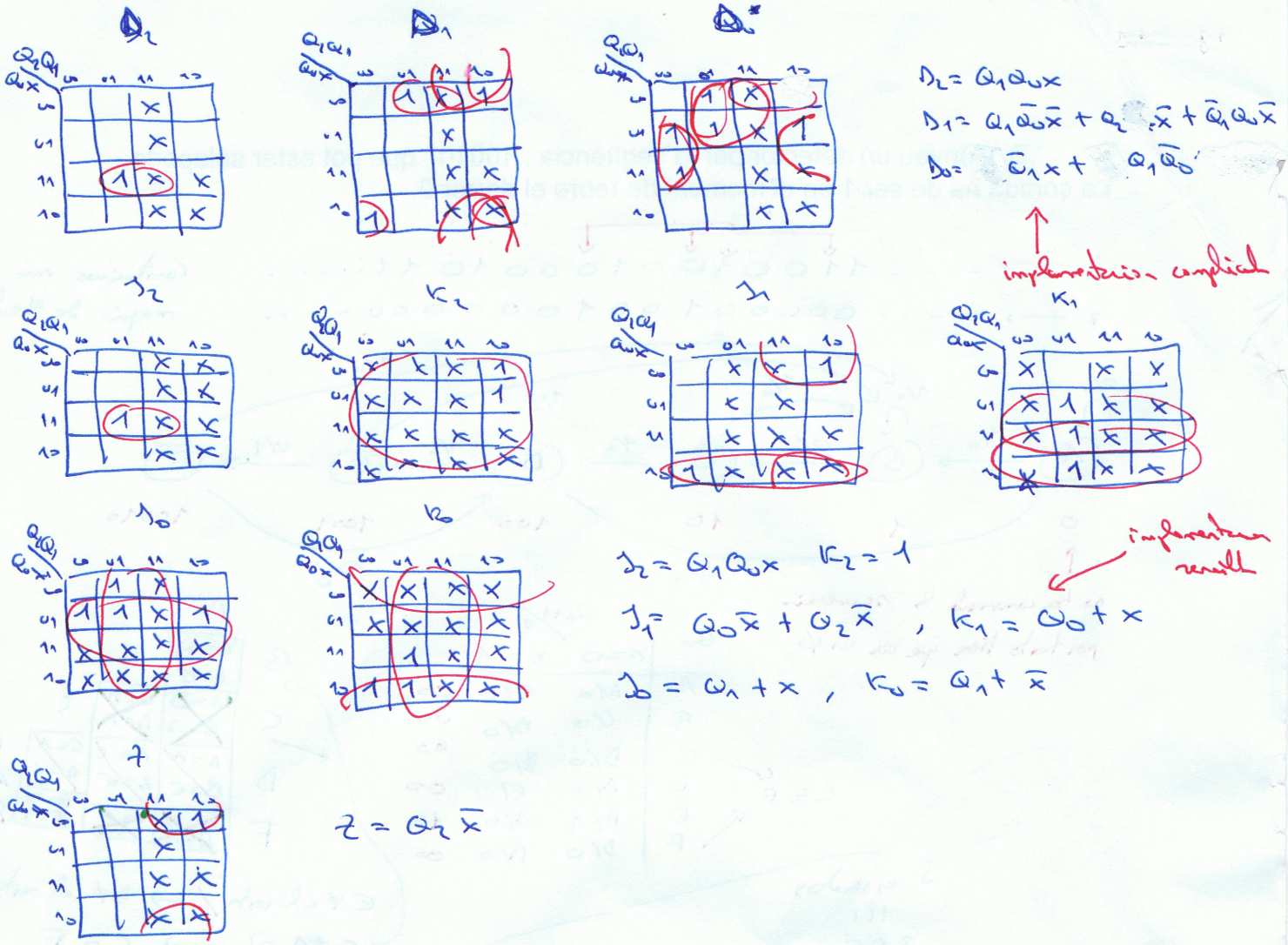
me sobran 3 estados

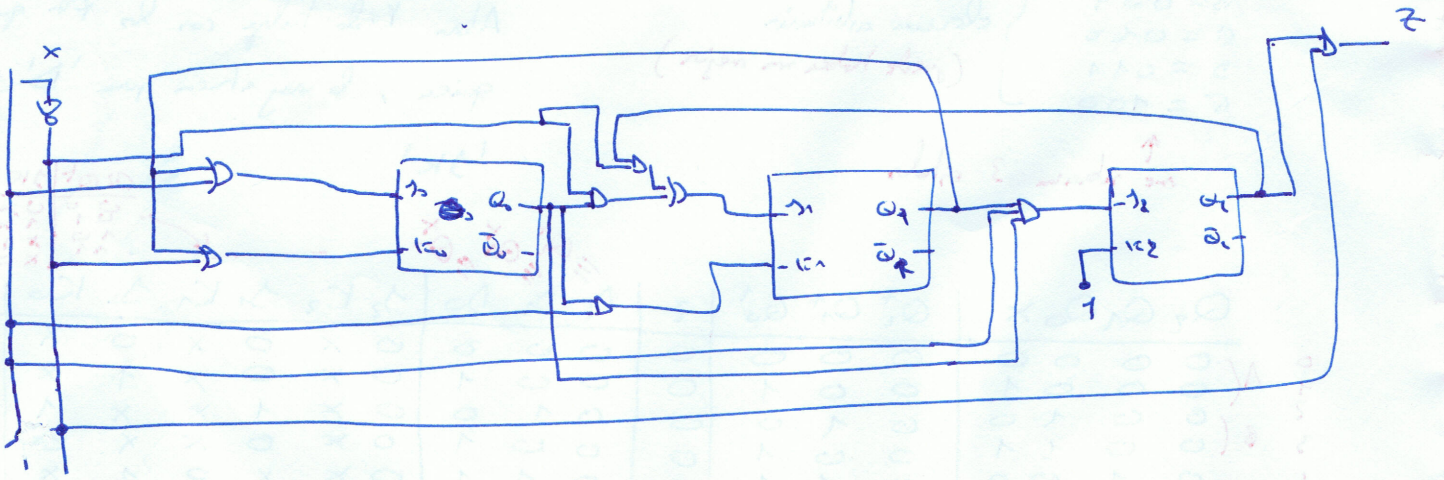
Ahora todo tuyo con los FF que quiera, lo voy a hacer con 'D' y con 'JK'

$Q Q^+$	J	K
0 0	0	X
0 1	1	X
1 0	X	1
1 1	X	0

	Q_2	Q_1	Q_0	x	Q_2^+	Q_1^+	Q_0^+	z	$D_2 \equiv Q_2^+$	$D_1 \equiv Q_1^+$	$D_0 \equiv Q_0^+$	J_2	K_2	J_1	K_1	J_0	K_0
0	A	0	0	0	0	0	0	0	0	0	0	0	X	0	X	0	X
1		0	0	1	0	0	1	0	0	0	1	0	X	0	X	1	X
2	B	0	1	0	0	1	0	0	0	1	0	0	X	1	X	X	1
3		0	1	1	0	1	1	0	0	1	1	0	X	0	X	X	0
4	C	1	0	0	0	1	1	0	0	1	1	0	X	X	0	1	X
5		1	0	1	0	0	1	0	0	0	1	0	X	X	1	1	X
6	D	0	1	1	0	0	0	0	0	0	0	0	X	X	1	X	1
7		0	1	1	1	1	0	0	1	0	0	1	X	X	1	X	1
8	E	1	0	0	0	0	1	0	0	1	0	X	1	1	X	0	X
9		1	0	0	1	0	0	1	0	0	1	X	1	0	X	1	X
10		1	0	1	0	X	X	X	X	X	X	X	X	X	X	X	X
11		1	0	1	1	X	X	X	X	X	X	X	X	X	X	X	
12		1	1	0	0	X	X	X	X	X	X	X	X	X	X	X	X
13		1	1	0	1	X	X	X	X	X	X	X	X	X	X	X	X
14		1	1	1	0	X	X	X	X	X	X	X	X	X	X	X	X
15		1	1	1	1	X	X	X	X	X	X	X	X	X	X	X	X

y con esto ha de hacerse para los 2 casos


D_2
D_1
D_0
J_2
K_2
J_1
K_1
J_0
K_0
z
$D_2 = Q_1 Q_0 x$
$D_1 = Q_1 \bar{Q}_0 \bar{x} + Q_2 \bar{x} + \bar{Q}_1 Q_0 \bar{x}$
$D_0 = \bar{Q}_1 x + Q_1 \bar{Q}_0$
implementacija - complicated
$J_2 = Q_1 Q_0 x \quad K_2 = 1$
$J_1 = Q_0 \bar{x} + Q_2 \bar{x}, \quad K_1 = Q_0 + x$
$J_0 = Q_1 + x, \quad K_0 = Q_1 + \bar{x}$
implementacija - result
$z = Q_2 \bar{x}$


x
z
1