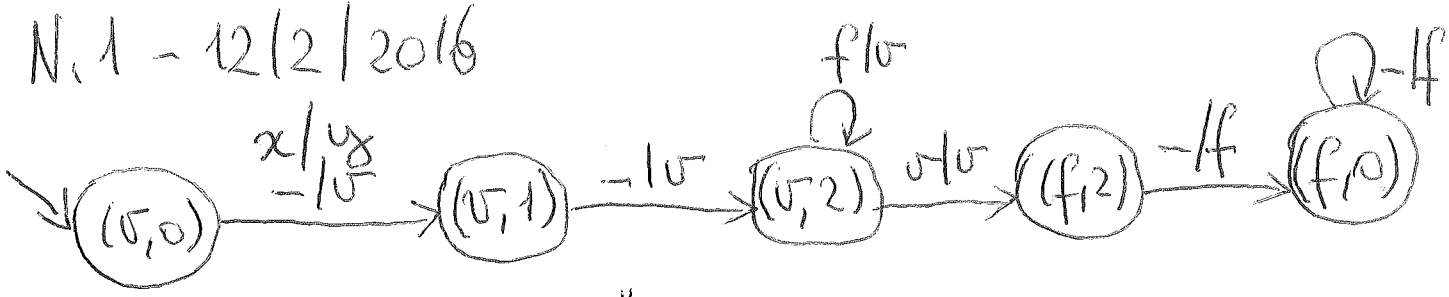
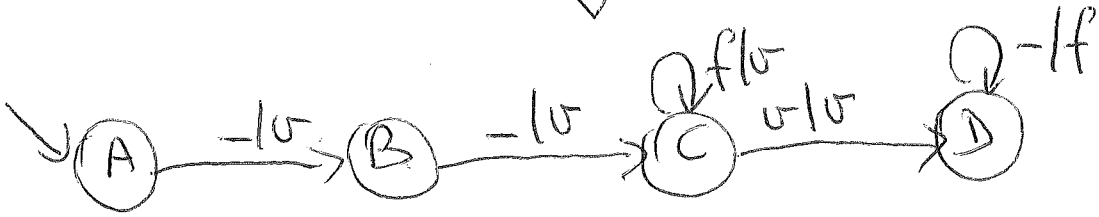
N. 1 - 12/2/2016



⇓ minimizzazione



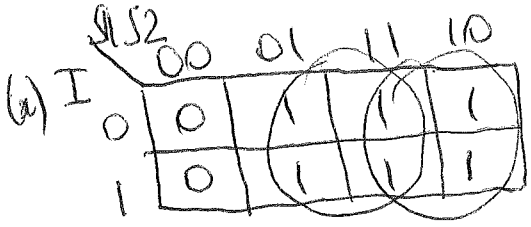
$x = vp0\ vp1\ fp2\ vp3\ fp4$

$y = vp0\ vp1\ vp2\ vp3\ fp4\ fp5$

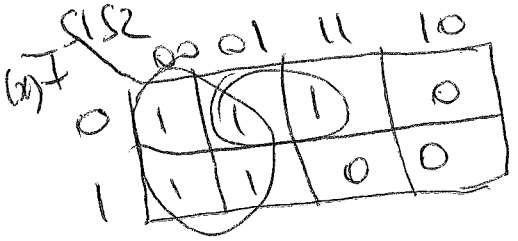
I	SP	SF	y
0	A	B	1
1	A	B	1
-	B	C	1
0	C	C	1
1	C	D	1
-	D	D	0

A → 00
B → 01
C → 11
D → 10

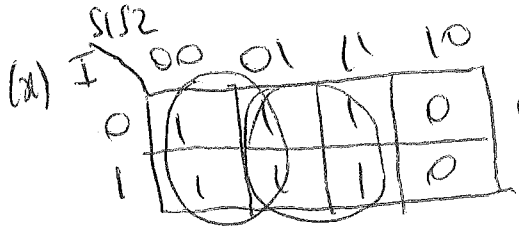
I	S1	S2	N1	N2	U
0	00		01		1
1	00		01		1
-	01		11		1
0	11		11		1
1	11		10		1
-	10		10		0



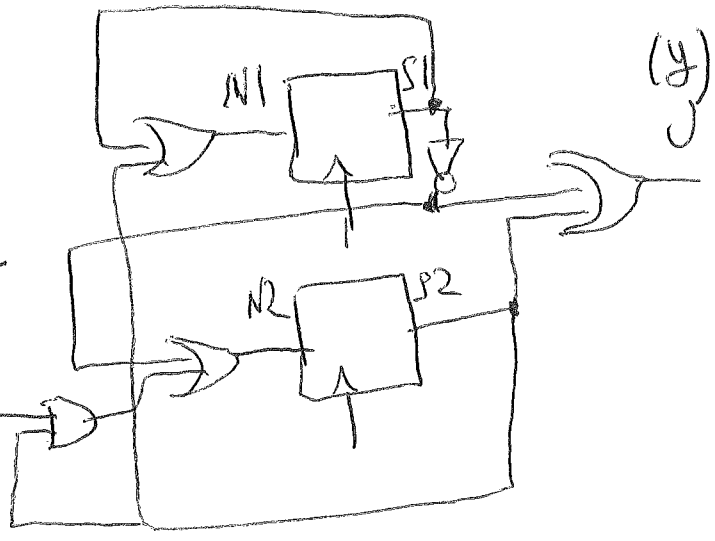
$N1 = S1 + S2$

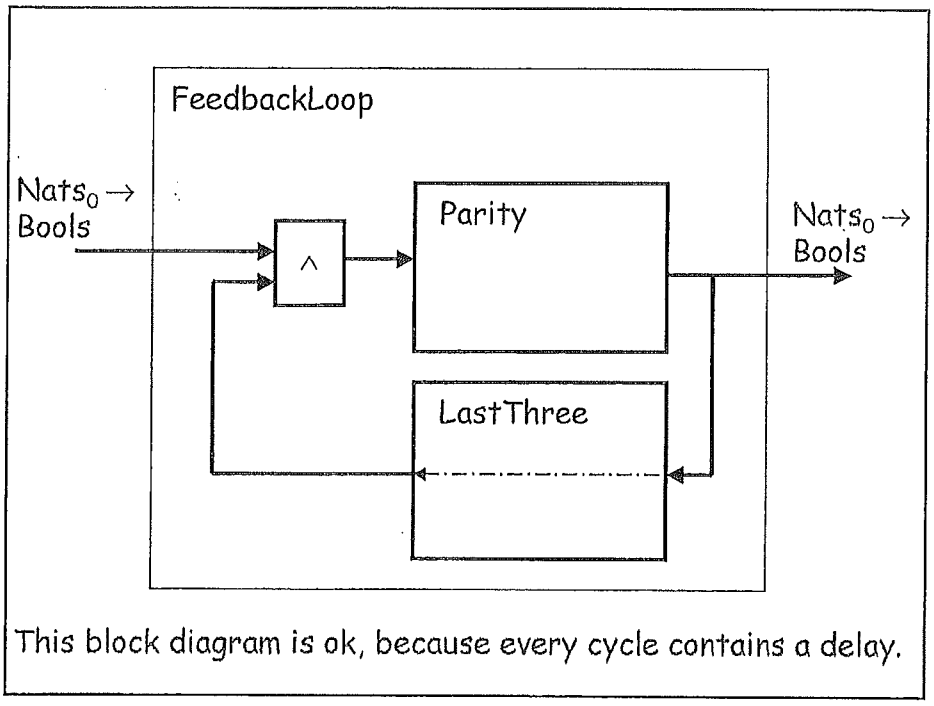


$N2 = \overline{S1} + \overline{I}\,S2$

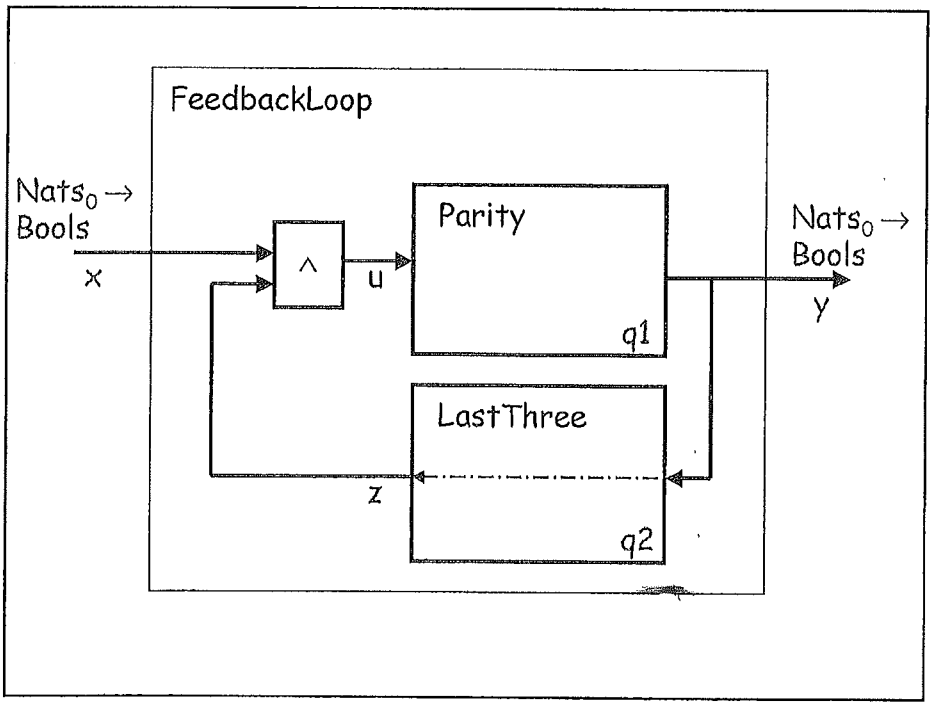


$U = \overline{S1} + S2$

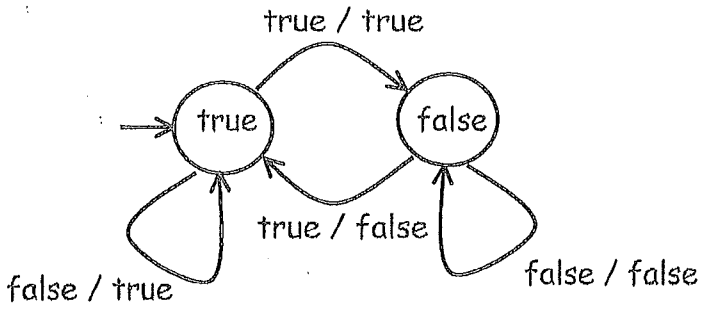




This block diagram is ok, because every cycle contains a delay.

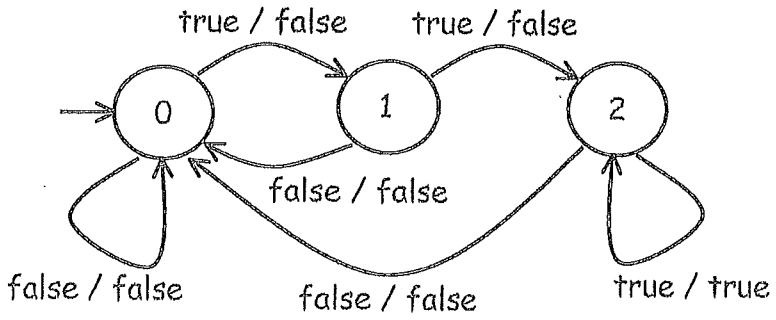


Parity System



States = Bools
Inputs = Bools
Outputs = Bools

LastThree System



States = {0, 1, 2}
Inputs = Bools
Outputs = Bools