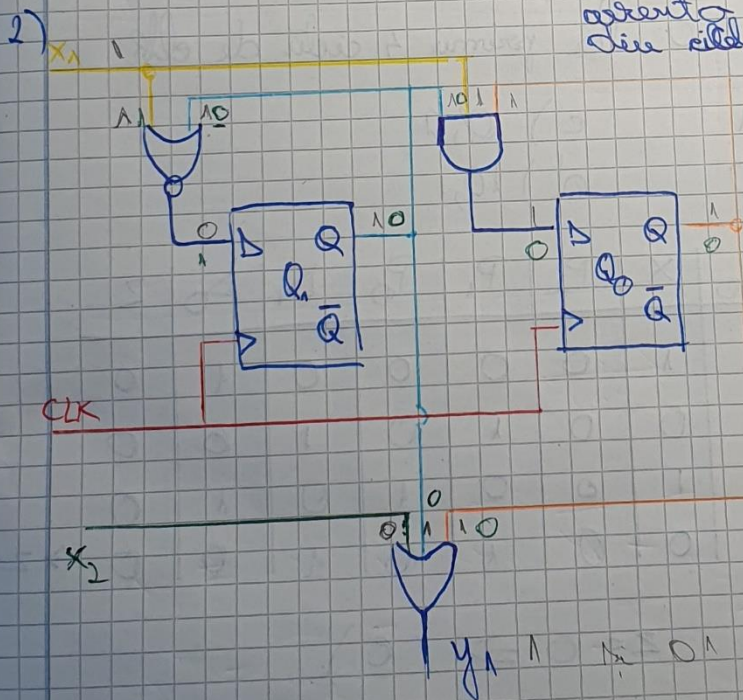


- a) 0001 c) 1111
b) 1110 d) 1000

$$\bar{G}_1 G_2 AB = 1, x, 0, 0$$

c) ✓

Box zur für jedes
gerade hi stören System
die bilden werden?



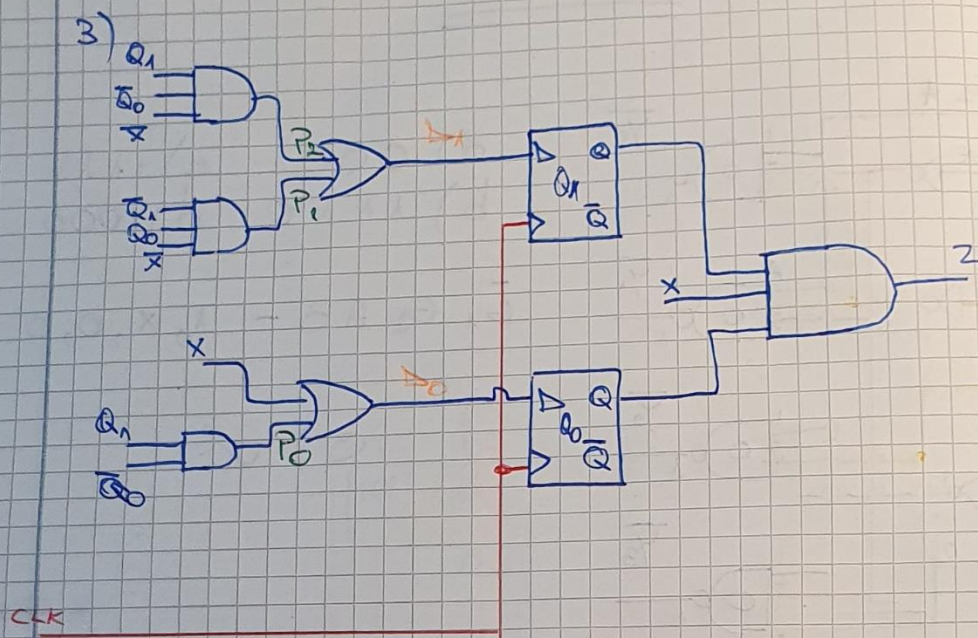
$$Q_1 Q_0 = 00$$

$$X_1 X_2 = 01$$

- a) 0210
b) 1211
c) 1201
d) 0211
e) 0210

⇒ c

$$\left. \begin{array}{l} X_1 = 0111 = 1 \\ Q_1 = \sim(111) = 0 \\ Q_0 = 1212 = 1 \end{array} \right\} \Rightarrow 1201$$



$$Q_1, Q_0 = 0, 1$$

$x = 1, 0, 1, 0$ la primii 4 cicli de clk

a) 11, 1

c) 0, 0

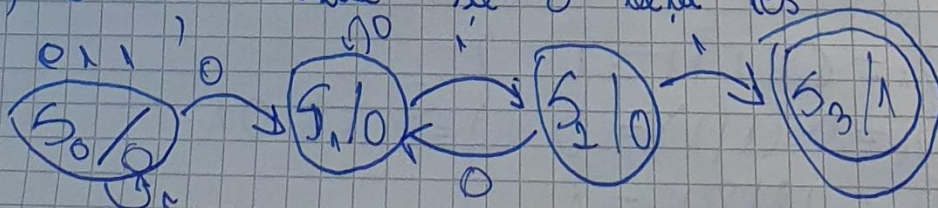
b) 11, 0

d) 10, 1

CLK	Q_1	Q_0	x	P_2	P_1	P_0	D_1	D_0	Z
1	0	1	1	0	0	0	0	1	0
2	0	1	0	0	1	0	1	0	0
3	1	0	1	0	0	1	0	1	0
4	0	1	0	0	1	0	1	0	0

$$\Rightarrow Q_1, Q_0 = 0, 1 \quad Z = 0 \Rightarrow e)$$

4) 3 biti intră și 8 biti ies



	Q_1	Q_0		Q_1	Q_0	J_m	Q_{1-mxt}	Q_{2-mxt}	$\bar{E}H$
$S_0 =$	0	0		0	0	0	0	0	0
S_1	0	1		0	0	1	0	0	0
S_2	1	0		0	1	0	0	1	0
S_3	1	1		0	1	1	1	0	0
				1	0	0	0	1	0
				1	0	1	1	1	0
				1	1	*	0	0	1 *

J_m \ 000 01 11 10
 0 0 1 1 3 3
 1 1 5 2 1 2

$$Q_{\text{ext}} = Q_1 Q_0 + Q_0 J_m$$

J_m

	00	01	11	10
0	1	0	1	2
1	1	5	7	6

$$Q_{\text{ext}} = \bar{I}_{\text{in}} + \bar{Q}_0$$

