

Examen

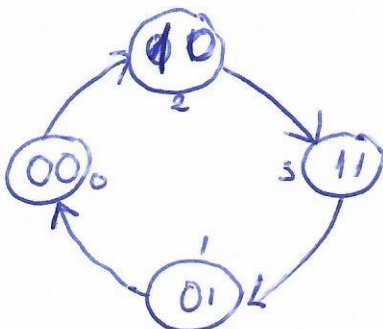
Exercitiul 1

R	J	K	C	Q	
0	0	0	1	1	
0	1	0	1	1	Memorize
0	1	0	0	1	Memorize
1	0	1	0	0	Reset
1	0	1	1	0	Reset
1	1	0	1	0	Reset
0	0	1	1	0	Memorize
0	0	0	0	0	Memorize
0	1	1	1	0	J=0 K=0 => Memorize
0	0	1	0	0	Memorize
0	0	0	0	0	Memorize
0	0	0	1	0	Memorize J=0 K=0

$$Q = 111000000,000$$

Exercitiul 2

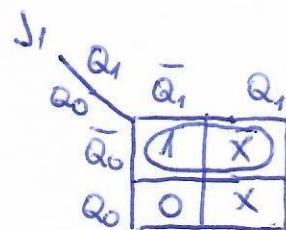
$$2 \rightarrow 3 \rightarrow 1 \rightarrow 0 \rightarrow 2$$



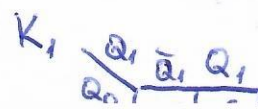
Q_1	Q_0	Q_1'	Q_0'	J_1	K_1	J_0	K_0
0	0	1	0	1	x	0	x
0	1	0	0	0	x	x	1
1	0	1	1	x	0	1	x
1	1	0	1	x	1	x	0

Q_m	Q_{m+1}	J	K
0	0	0	x
0	1	1	x
1	0	x	1
1	1	x	0

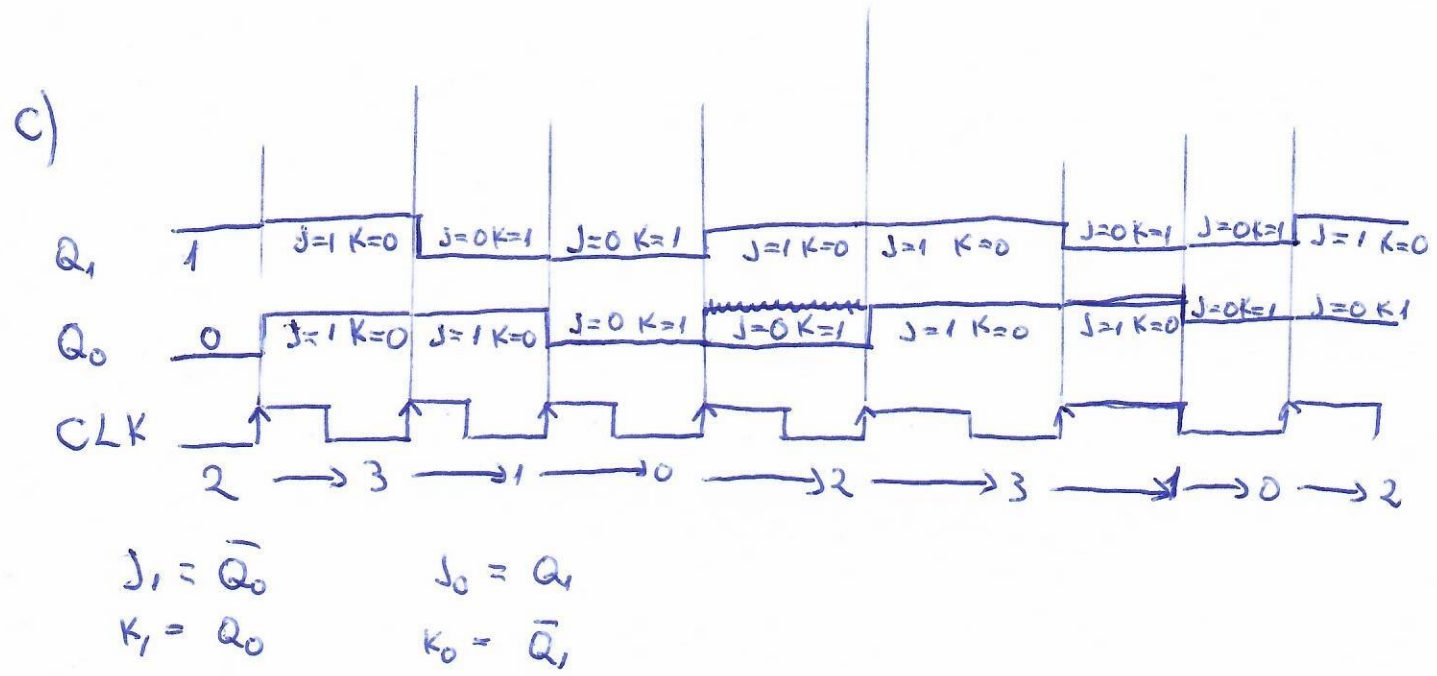
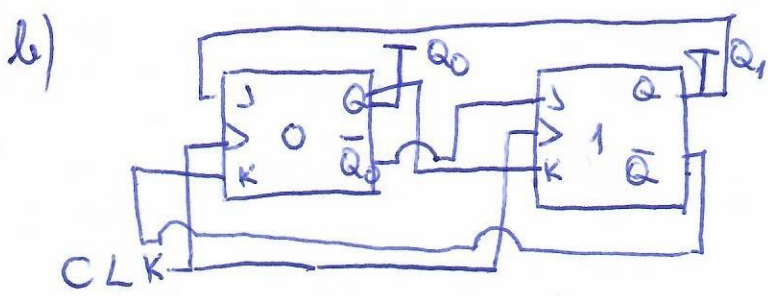
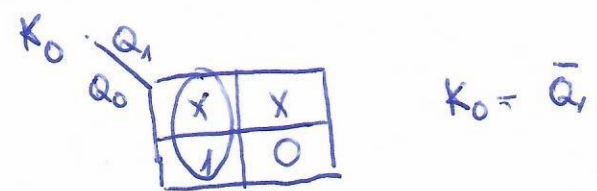
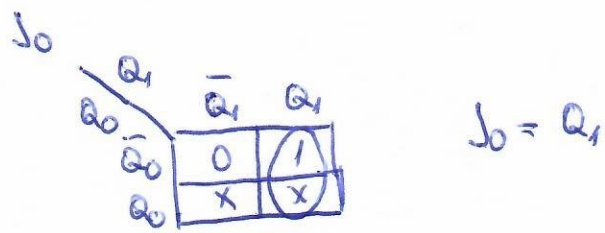
a)



$$\Rightarrow J_1 = \overline{Q_0}$$

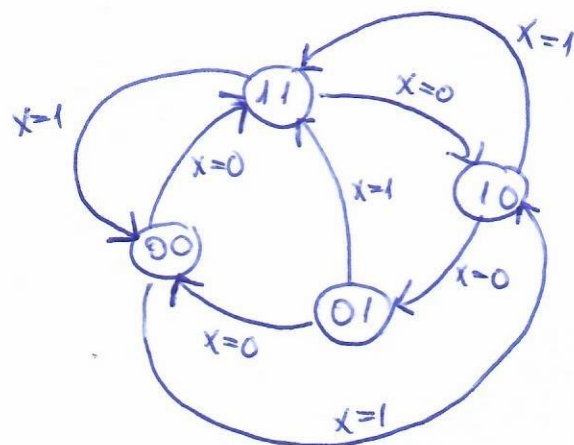


$$K_1 = Q_0$$



Exercitium 3

- a) $x=0$ $3 \rightarrow 2 \rightarrow 1 \rightarrow 0 \rightarrow 3$
 $x=1$ $1 \rightarrow 3$; $2 \rightarrow 3 \rightarrow 0 \rightarrow 2$



x	Q ₁	Q ₀	Q ₁ '	Q ₀ '	D ₁	D ₀
0	0	0	1	1	1	1
0	0	1	0	0	0	0
0	1	0	0	1	0	1
0	1	1	1	0	1	0
1	0	0	1	0	1	0
1	0	1	1	1	1	1
1	1	0	1	1	1	1
1	1	1	0	0	0	0

D₁

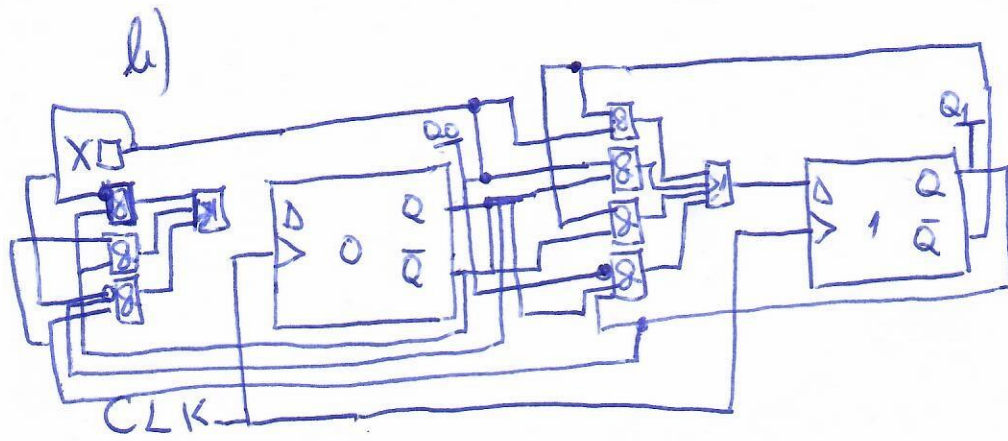
	$x Q_1$			
Q_0	1	0	1	1
	0	1	0	1

$$D_1 = \bar{x} \bar{Q}_1 + x \bar{Q}_0 + \bar{Q}_1 \bar{Q}_0 + \bar{x} Q_1 Q_0$$

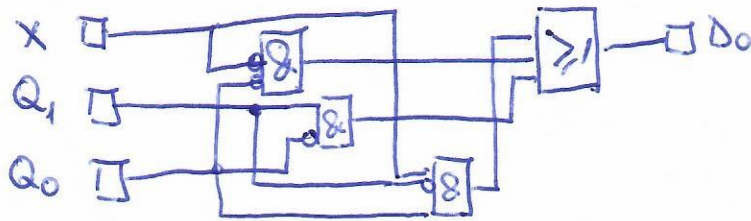
D₂

	$x Q_1$			
Q_0	1	1	1	0
	0	0	0	1

$$D_0 = \bar{x} \bar{Q}_0 + Q_1 \bar{Q}_0 + x \bar{Q}_1 Q_0$$



7x D₀



7x D₁

