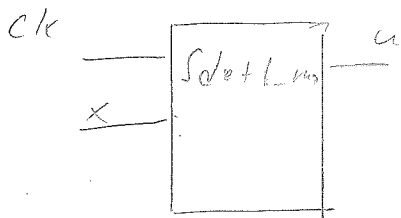
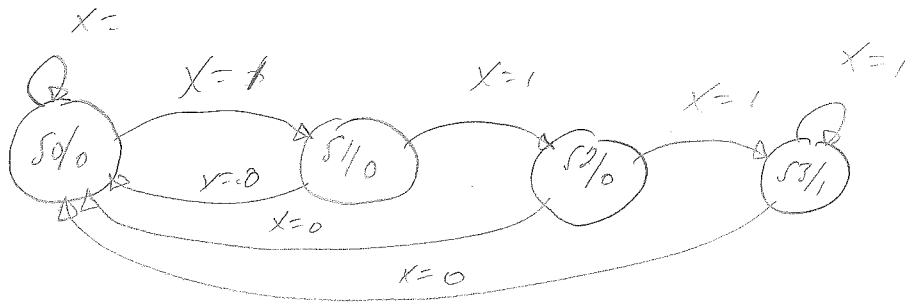


Sekvenskrets typ Moore. sid 218. (214)

ex. 1 Deteletern, minst 3 på varandra följande 1:or.
 Då skall utsignalen $u=1$, annars skall $u=0$. Överlappande sekvenser tillåtas. *Xibiripal.*



Synkron Krets.

Nuv. tillstånd	Nästa tillstånd		u
	x=0	x=1	
S0	S0	S1	0
S1	S0	S2	0
S2	S0	S3	0
S3	S0	S3	1

Koda tillstånden i gray-kod.

Koderna tillstånd	$q_1 q_0$
S0	00
S1	01
S2	11
S3	10

$q_1 q_0$	$q_1^+ q_0^+$		u
	x=0	x=1	
00	00	01	0
01	00	11	0
11	00	10	0
10	00	10	1

$$u = q_1 \cdot \overline{q_0}$$

$$q_1^+ = x \cdot q_0 + \overline{x} \cdot q_1$$

$$q_0^+ = \overline{q_1} \cdot x$$

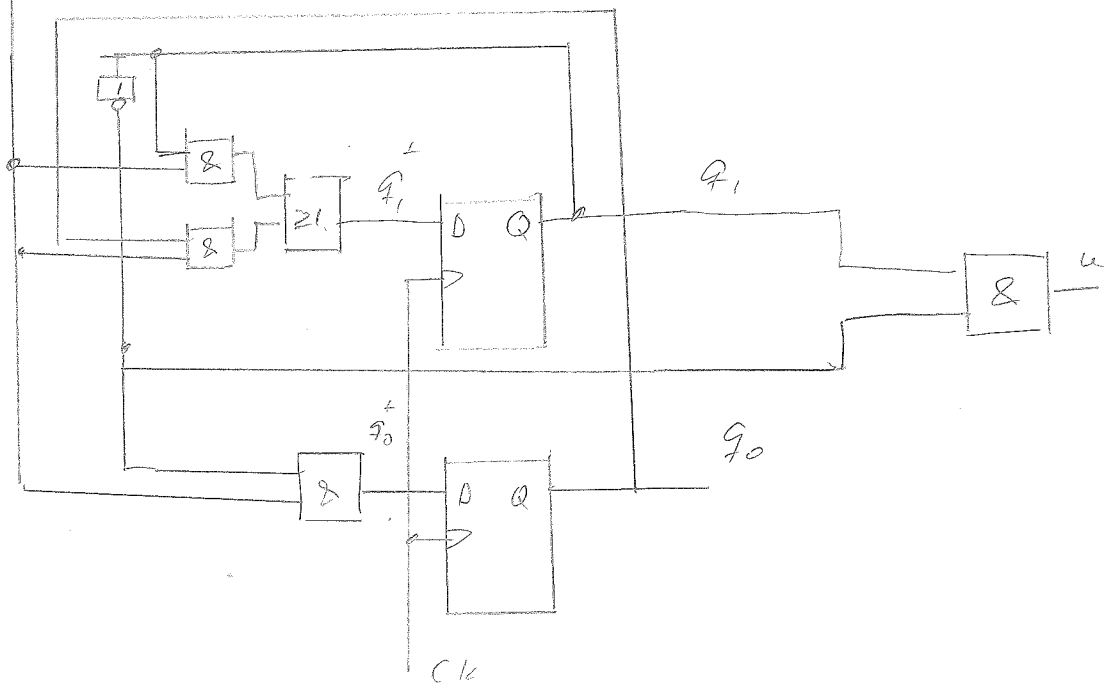
q_1^+

$q_1 q_0$	0	1
00	0	0
01	0	1
11	0	1
10	0	1

q_0^+

$q_1 q_0$	0	1
00	0	0
01	0	1
11	0	0
10	0	0

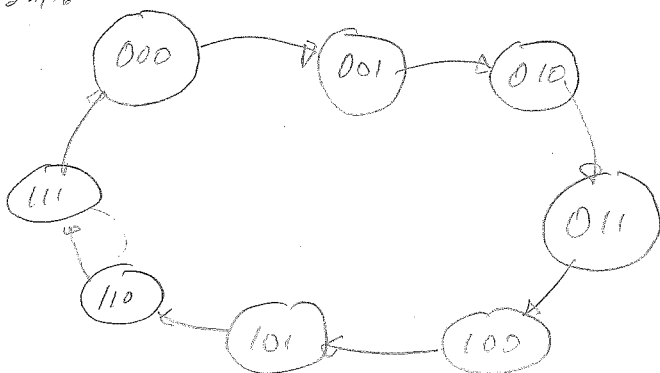
$$q_1^+ = x \cdot q_0 + \overline{x} \cdot q_1 \quad q_0^+ = \overline{q_1} \cdot x$$



Räkne

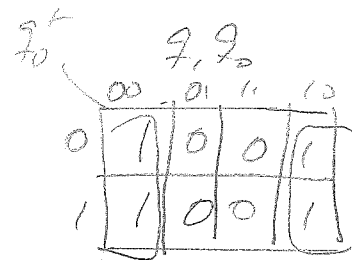
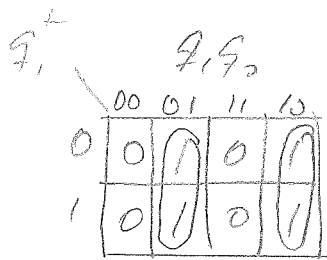
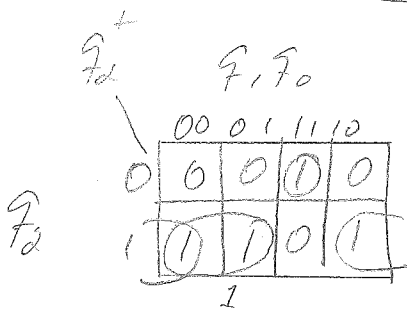
ex. 1 Konstruera en biträkare med 8: (0-7)

q_2, q_1, q_0



q_2, q_1, q_0	q_2^+, q_1^+, q_0^+	T_2, T_1, T_0
0 0 0	0 0 1	0 0 1
0 0 1	0 1 0	0 1 1
0 1 0	0 1 1	0 0 1
0 1 1	1 0 0	1 1 1
1 0 0	1 0 1	0 0 1
1 0 1	1 1 0	0 1 1
1 1 0	1 1 1	0 0 1
1 1 1	0 0 0	1 1 1

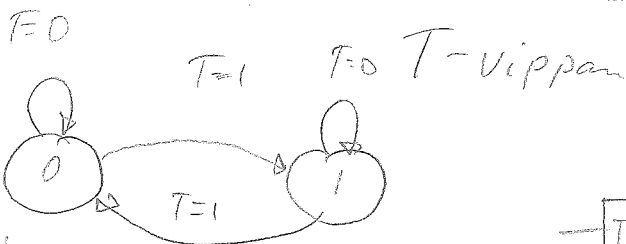
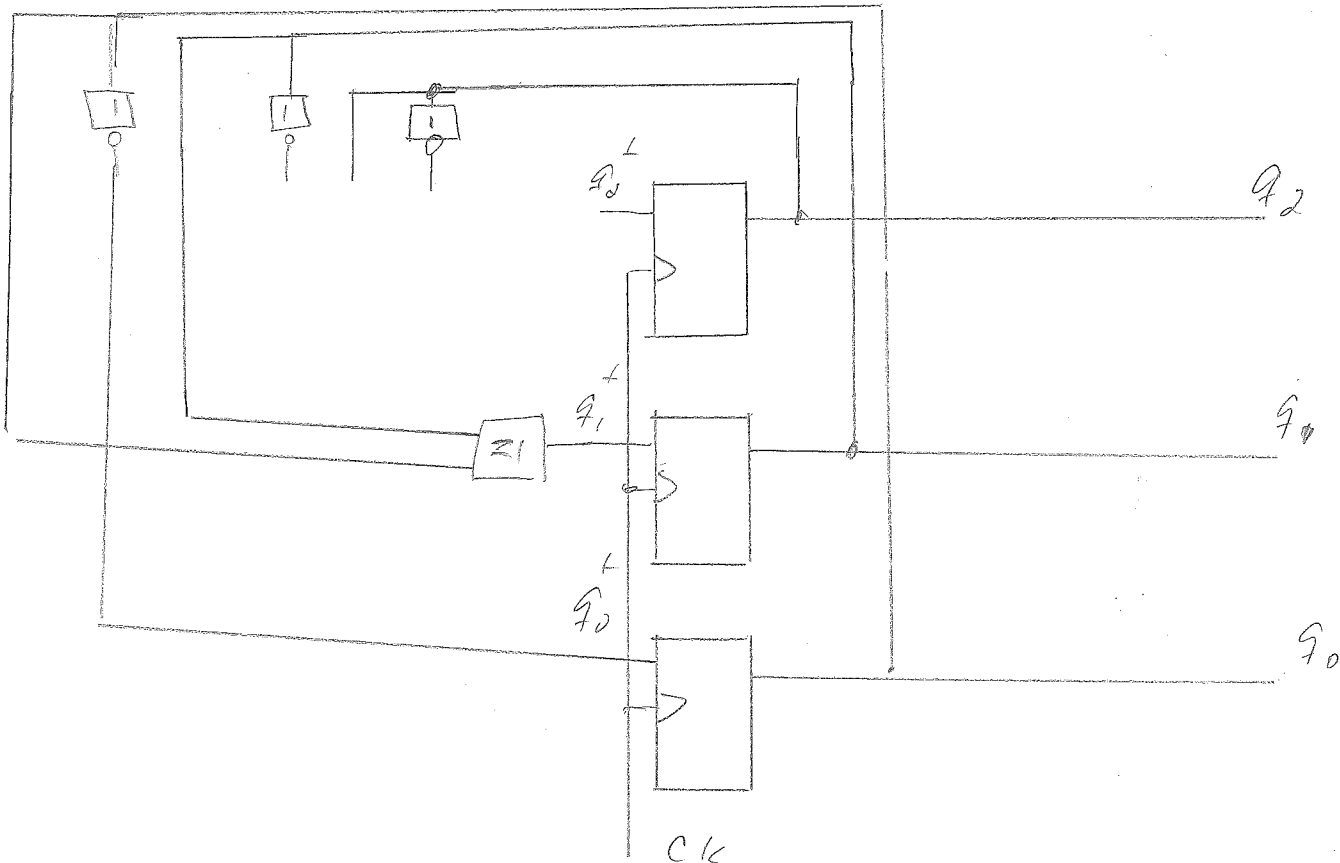
Föreläsning 4/11-13 blad 3



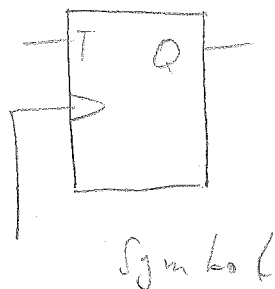
$$Q_2^+ = Q_2 \cdot \overline{Q_1} + Q_2 \cdot \overline{Q_0} + \overline{Q_2} \cdot Q_1 \cdot Q_0$$

$$Q_1^+ = \overline{Q_1} \cdot \overline{Q_0} + Q_1 \cdot \overline{Q_0}$$

$$Q_0^+ = \overline{Q_0}$$



T	Q ⁺
0	Q
1	\overline{Q}



Föreläsning 4/11-13 blad 4.

$$T_2 = f(q_2, q_1, q_0) \quad T_1 = g(q_2, q_1, q_0) \quad T_0 = h(q_2, q_1, q_0)$$

Ur tabellen på blad 2 fås:

$$T_0 = 1, \quad T_1 = q_0, \quad T_2 = q_1 \cdot q_0$$

