

Boris Jihoz
G191210303

1)

x	y	c _{in}	C _{out}	T
0	0	0	0	0
0	0	1	0	1
0	1	0	0	1
0	1	1	1	0
1	0	0	0	1
1	0	1	1	0
1	1	0	1	0
1	1	1	1	1

T →

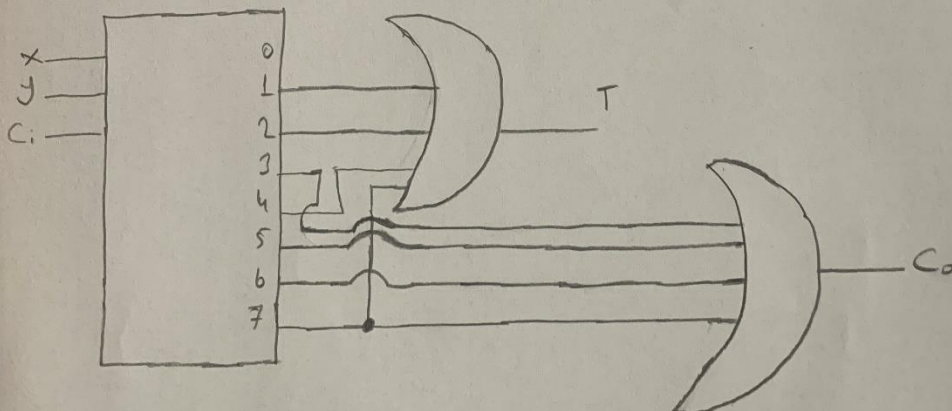
xy \ c	0	1
00		1
01	1	
11		1
10	1	

C₀ →

xy \ c	0	1
00		
01		1
11	1	1
10		1

$$T = x'y'c_i + x'yc_i' + xy'c_i' + xyc_i \Rightarrow \Sigma(1,2,4,7)$$

$$C_0 = xyc_i + xy'c_i' + xy'c_i + xyc_i' \Rightarrow \Sigma(3,5,6,7)$$



Baris Yılmaz
6191210303

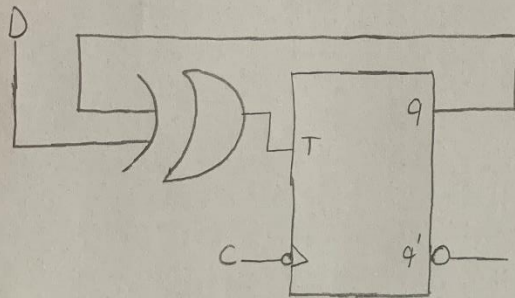
2) (Simetrik) (Sarrus)

D	q	q'	T
0	0	0	0
0	1	0	1
1	0	1	1
1	1	1	0

q'D	0	1
0		1 → q'D
1	1 → D'q	

$$T = Dq' + D'q$$

$$= D \oplus q$$



3) $D_2 = Q_2 = (q_1' + x)$
 $J_1 = K_1 = (x' + q_2')$
 $Q = Jq_1' + K'q_1 \Rightarrow Q = (x' + q_2')q_1' + xq_2q_1$

Şimdiki Durum q_1, q_2	Sonraki Durum Q_1, Q_2		Uyarma İşlemleri J_1, K_1				D_2	
	$x=0$	$x=1$	$x=0$	$x=1$	$x=0$	$x=1$	$x=0$	$x=1$
00	11	11	1x	1x	1	1	1	1
01	11	01	1x	0x	1	1	1	1
11	00	01	x1	x1	0	1	0	1
10	00	11	x1	x0	0	1	0	1

