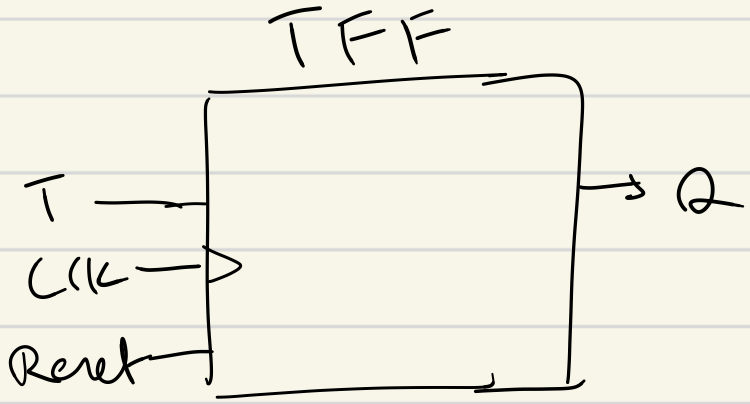
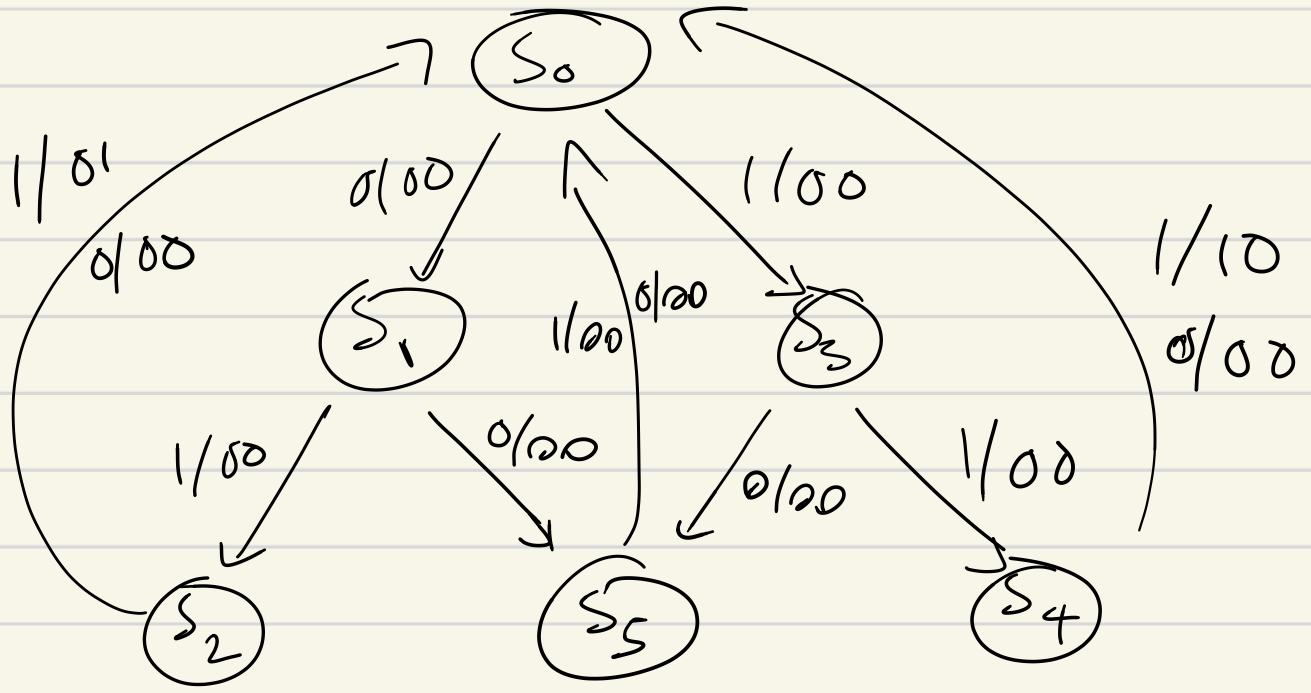
①



Reset	T	Q(t+1)	
1	X	0	
0	0	Q(t)	
0	1	Q'(t)	→ complement

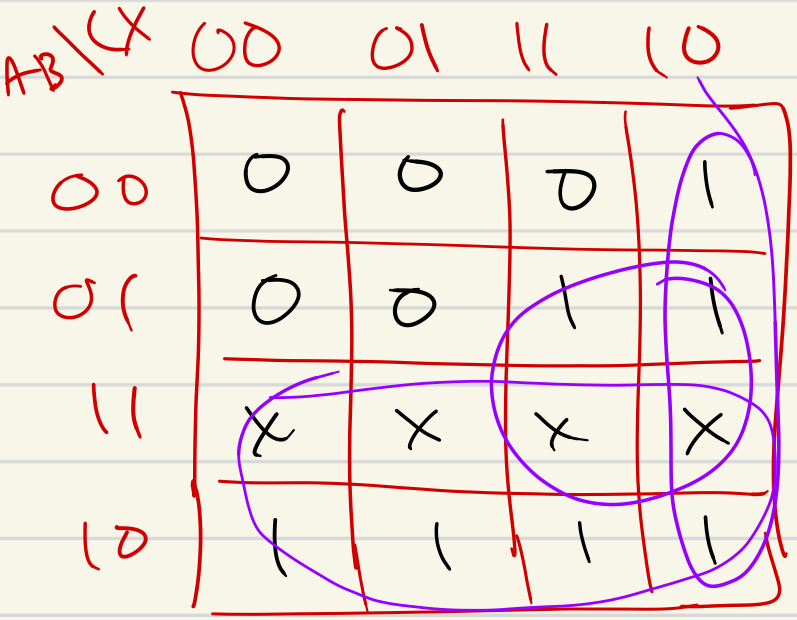
5



S_0 - 000
S_1 - 001
S_2 - 010
S_3 - 011
S_4 - 100
S_5 - 101

Current State ABC	Next state x=0	Next state x=1	Out x=0	Out x=1	$T_A T_B T_C$ x=0	$T_A T_B T_C$ x=1
000	001	011	00	00	001	011
001	101	010	00	00	100	011
010	000	000	00	01	010	010
011	101	100	00	00	110	111
100	000	000	00	10	100	100
101	000	000	00	00	101	101

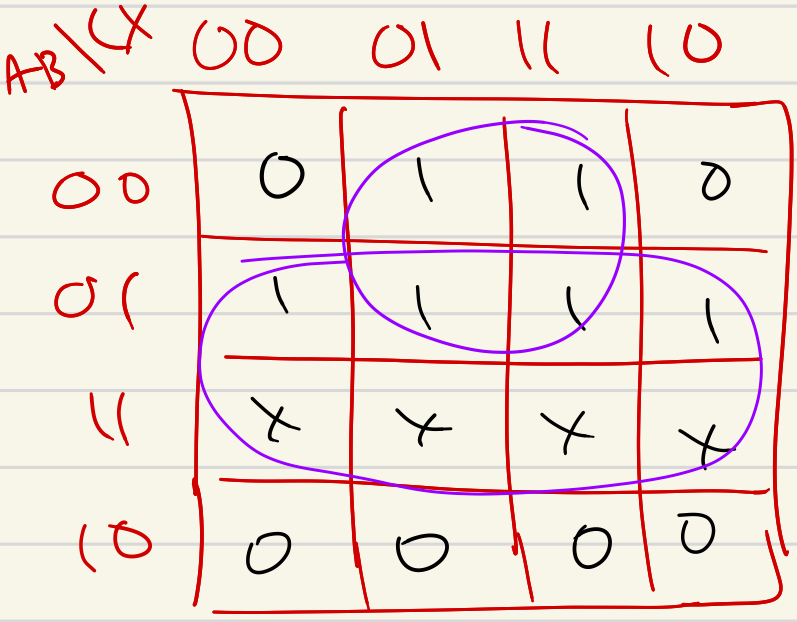
$Y_1 Y_2$



T_A

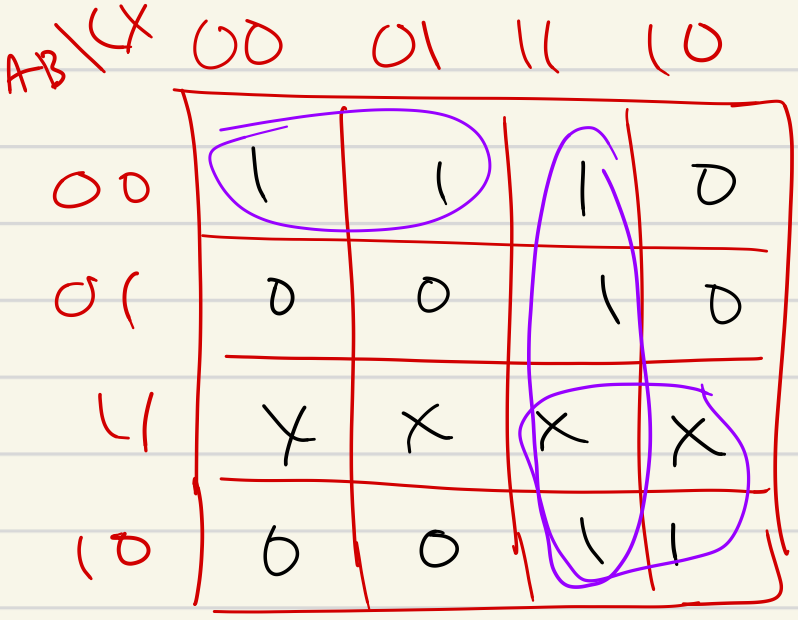
$C\bar{X} + A + BC$

↳ TFF → $A(t+1)$



T_B

$B + \bar{A}X$



T_C

$\overline{AB}C + CX + AC$

Y_1, Y_2

Y_1

AB \ CX	00	01	11	10
00	0	0	0	0
01	0	0	0	0
11	x	x	x	x
10	0	1	0	0

$Y_1 = A\bar{C}X$

AB \ CX	00	01	11	10
00	0	0	0	0
01	0	1	0	0
11	x	x	x	x
10	0	0	0	0

Y_2

$Y_2 = B\bar{C}X$