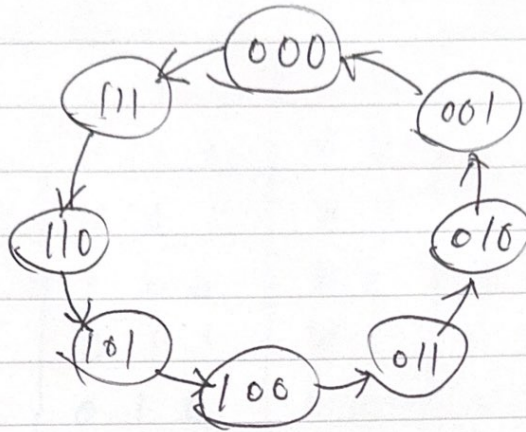


① 상태 전이 (state diagram)



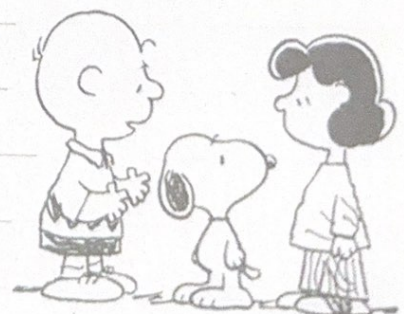
② 상태이기표 작성

②-①: JK Flip-이기표



$Q(t)$	$Q(t+1)$	J	K
0	0	0	X
0	1	1	X
1	0	X	1
1	1	X	0

현재상태			다음상태			플립플롭 입력					
Q_C	Q_B	Q_A	Q_C	Q_B	Q_A	J_C	K_C	J_B	K_B	J_A	K_A



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2 상태여기판 작성

현재상태			다음상태			프립플록 입력					
Q_C	Q_B	Q_A	Q_C	Q_B	Q_A	J_C	K_C	J_B	K_B	J_A	K_A
0	0	0	1	1	1	1	X	1	X	1	X
1	1	1	1	1	0	X	0	X	0	X	1
1	1	0	1	0	1	X	0	X	1	1	X
1	0	1	1	0	0	X	0	0	X	X	1
1	0	0	0	1	1	X	1	1	X	1	X
0	1	1	0	1	0	0	X	X	0	X	1
0	1	0	0	0	1	0	X	X	1	1	X
0	0	1	0	0	0	0	X	0	X	X	1

3 카르드 맵 작성.

i) $J_C = \overline{Q_B} \cdot \overline{Q_A}$

ii) $K_C = \overline{Q_B} \cdot \overline{Q_A}$

Q_C	$Q_B Q_A$			
	00	01	11	10
0	1	0	0	0
1	X	X	X	X

Q_C	$Q_B Q_A$			
	00	01	11	10
0	X	X	X	X
1	1	0	0	0

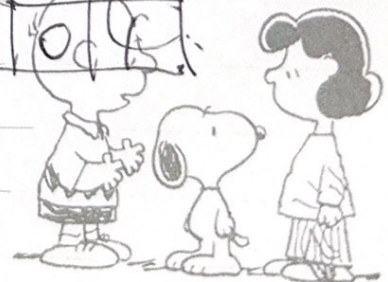
iii) $J_B = \overline{Q_A}$

iv) $K_B = \overline{Q_A}$

Q_C	$Q_B Q_A$			
	00	01	11	10
0	1	0	X	X
1	1	0	X	X

Q_C	$Q_B Q_A$			
	00	01	11	10
0	X	X	0	1
1	X	X	0	0

v) $J_A = K_A = 1 \Rightarrow \boxed{\text{Full}}$



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