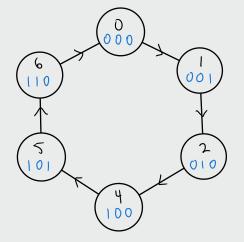
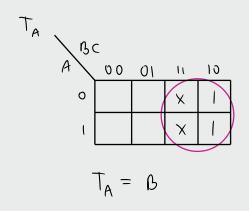
<u>Problem statement</u>: Implement the sequential circuit needed for the following sequence (using Tf/f)

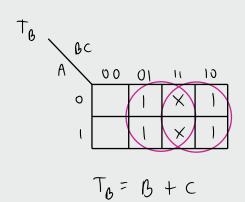


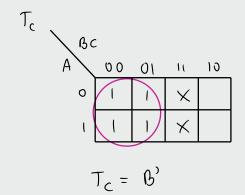
Q(t)	Q(t + 1)	Т					
0	0	0					
0	1	1					
1	0	1					
1	1	0					
(d) T							

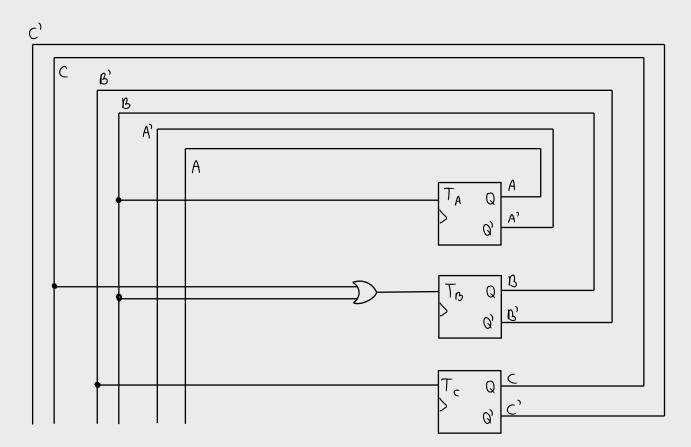
T flip flop Excitation table

	Q(t)			Q(t+1)					
	Α	В	C	A	В	C	TA	TB	T_{c}
0	0	0	0	Ŋ	0	1	0	0	1
1	0	0	1	0	1	0	0	1	
2	O	1	0	1	0	0	1	١	0
4	1	0	0	1	0	1	Ø	0	1
5	1	O	1	1	J	0	0	1)
6	١	l	0	0	0	Ô)	١	0









$$\begin{array}{c|c}
T & Q(t+1) \\
\hline
0 & Q(t) \\
\hline
1 & Q'(t)
\end{array}$$

T flip flop characteristic table

Unused State OII

Since the invalid states transition to valid states

(011 -> 100 and 111 -> 001),

then this circuit is self correcting

Unused State 111

