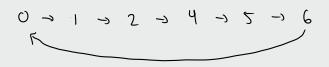
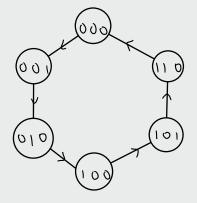
· Implement the sequential circuit needed for the counter of the following sequence (using O flip flops)

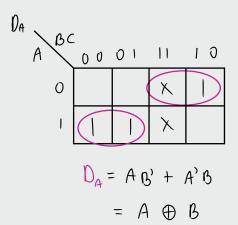


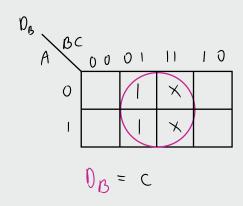
Excitation table:

Q(t)	Q(t + 1)	D
0	0	0
0	1	1
1	0	0
1	1	1

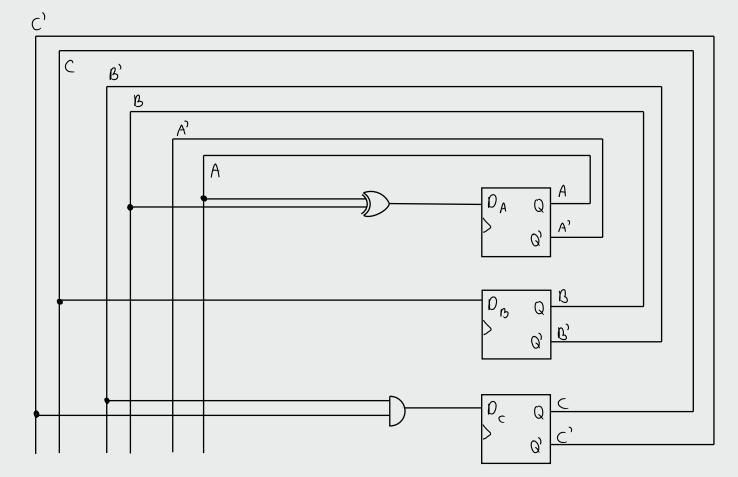


	Q(t)			Q(+1)					
	A	B	C	A	B	C	\mathcal{D}{A}	0,	D_{c}
0 1 2 4 5 6	0 0 0	0 0 1	0 0 0 0	0 0 1 1 0	0 1 0 0	1 0 0 1 0 0	0 0 1	0 0 0 0 0 0	1 0 0





Dc <	0.0					
A	BC	00	01	11	1	0
	0			X		
	1			X		
$D = B_{i}C_{i}$						



$$D_A = A \oplus B$$
 $D_B = C$ $D_c = B'C'$

Unused state 011

Since the invalid states transition into valid states, then this circuit is self-correcting

Unused State 111

