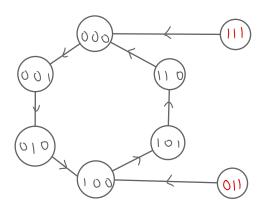
Counter for a non-binary sequence (ie. with skipped states)

Create a state table for the below sequence:

0 -> 1 -> 2 -> 4 -> 5 -> 6

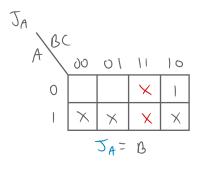
* We see that 3 and 7 (OII and III) are missing, so when we draw the state diagram, we include them but without transitions to them

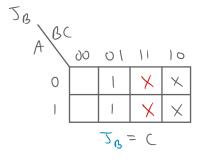


Q(t)	Q(t + 1)	J	K
0	0	0	X
0	1	1	X
1	0	X	1
1	1	X	0
	(b) <i>JK</i>		

JK excitation table from Morris Mano 6.6

Q(t)		Q	(++	1)						
	Α	B	C	A	B	C	\Im_{A}	1LA	JBKB	JcKc
0 1 2 4 5 6	0 0 1	0 0 1 0 0 1	0 0 0 0	0 0 1 1 0	0 0 0 0 0	0 0 1 0 0	0 0 1 1 X X	× × × 0 0 1	0 × 1 × 2 1 × 1 ×	X X 0 X 1 X X 0 X





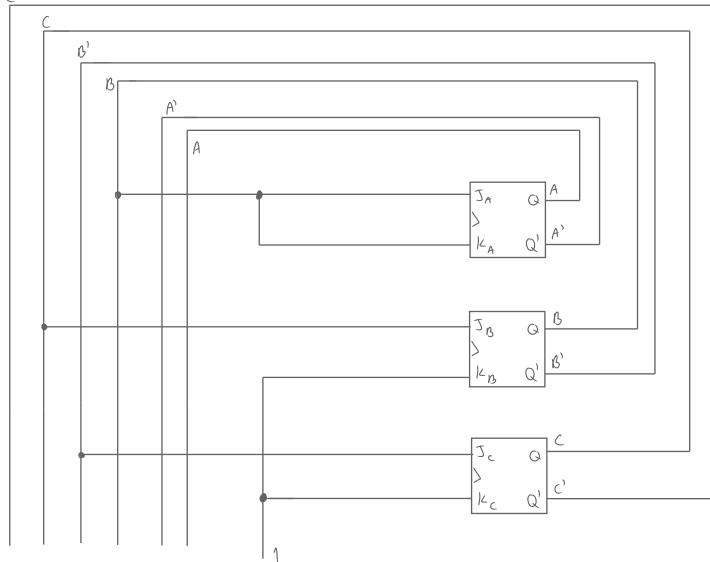
2°					
\BC	-				
π	90	01	11	10	
0	1	X	X		
1	١	X	×		
'	2 ^c = B,				

12A				
\BC	-			
A	90	01	11	10
0	×	×	×	×
1			X	1
14 = B				

KB BC	_					
A	90	01	11	10		
0	X	X	X	١		
1	X	X	X	١		
,	1LB = 1					

Kc				
ABC	00	01	11	10
0	X	1	X	X
1	×	١	×	X
		K	ر ت)





We then determine how this self corrects for the unused states