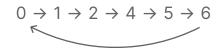
Counter for a non-binary sequence (ie. with skipped states) create a state table for the below sequence:



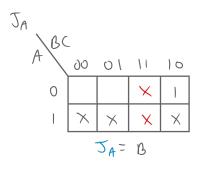
\* We see that 3 and 7 (OII and III) are missing, so when we draw the state diagram, we include them but without transitions to them

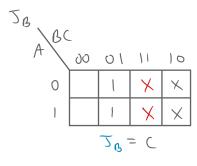
## JK excitation table from Morris Mano 6.6

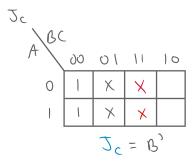
,	000		—(11)
00)	, (		
(010)		101	
	(00)		011

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>		

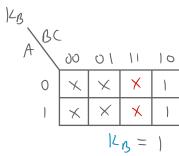
(+1)			
BC	JA KA	JBKB	JcKc
	0 × 0 × 1 × × 0 × 0	0 × 1 × > 1 0 × 1 × × 1	X   X     0 X   X   X     0 X
	B C 1 1 0 0 0 0 1 1 0	B C JA KA  O I O X  I O O X  O O I X  O I X O  I O X O	B C JA KA JB KB  0 1 0 × 0 ×  1 0 0 × 1 ×  0 0 1 × × 1  0 1 × 0 0 ×  1 0 × 0 ×





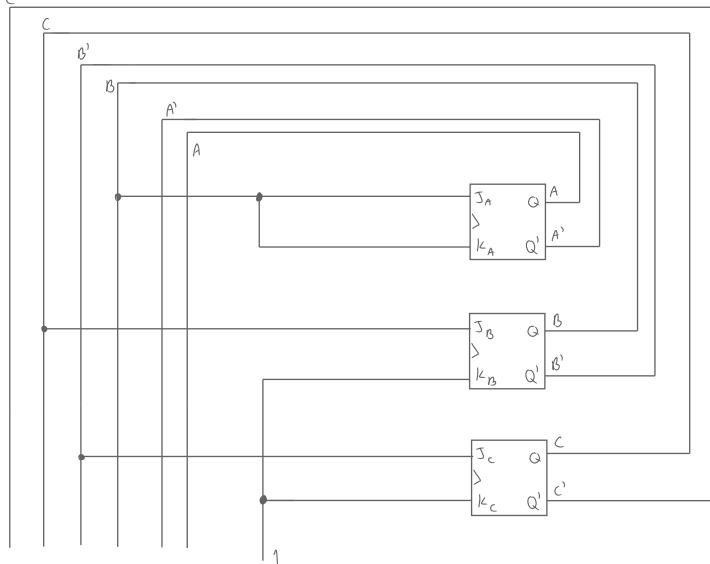


1LA				
ABC				
,, /	90	01	11	10
0	×	×	×	$\times$
1			X	1
14 = B				



Kc BC	-			
A \	90	01	11	10
0	X	1	X	X
1	X	١	×	X
·		K	ر ت	)





We then determine how this self corrects for the unused states