5-state Ring Counter								
STATE	present (Q)			next (D)				
	Q3	Q2	Q1	Q0	D3	D2	D1	D0
1	1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	1
3	0	0	0	1	0	0	1	0
4	0	0	1	0	0	1	0	0
5	0	1	0	0	1	0	0	0

## Needs a K-map for each D

D0	Q3Q2				
Q1Q0	00	01	11	10	
00	1				
01					
11					
10					
D0 = !Q3*!Q2*!Q1*!Q0					

D1	Q3Q2				
Q1Q0	00	01	11	10	
00					
01	1				
11					
10					
D1 = !Q3*!Q2*!Q1*Q0					

D2	Q3Q2				
Q1Q0	00	01	11	10	
00					
01					
11					
10	1				
D2 = !Q3*!Q2*Q1*!Q0					

D3	Q3Q2				
Q1Q0	00	01	11	10	
00		1			
01					
11					
10					
D3 = !Q3*Q2*!Q1*!Q0					

Like... this was totally unnecessary, but you know, might be useful for more complicated things that are more than 5 states

