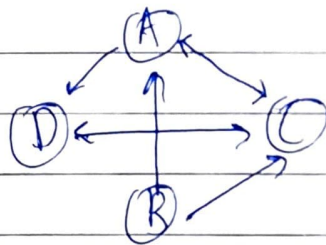


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①

	NS			
PS	00	01	11	10
A	(A)	(A)	D	C
B	(B)	A	(B)	C
C	A	(C)	D	(C)
D	(D)	C	(D)	(D)

Transition diagram:



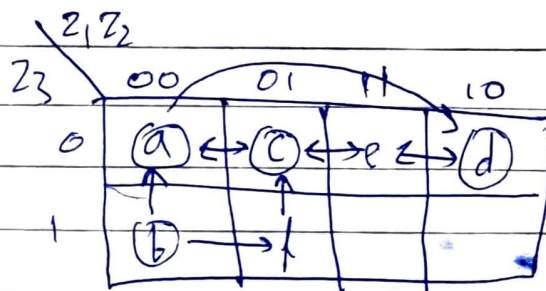
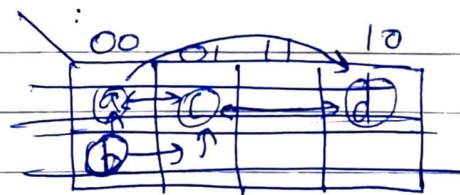
Required adjacency list for race free operation

00 : C to A

01 : B to A & D to C

11 : A to D & C to D

10 : A to C & B to C



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⑦ Augmented Flow Table

		NS				
PS	z z z z	0 0	0 1	1 1	1 0	
A	0 0 0	0 0 0	0 0 0	1 0 0	0 1 0	
B	0 0 1	0 0 1	0 0 0	0 0 1	0 1 1	
C	0 1 0	0 0 0	0 1 0	1 1 0	0 1 0	
F	0 1 1	-	-	-	0 1 0	
D	1 0 0	1 0 0	1 1 0	1 0 0	1 0 0	
E	1 1 0	-	0 1 0	1 0 0	-	

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② Mod 8 Asynchronous Ripple Counter

Timing diagram:

