

Current State	Next State		Output	
	Z = 0	Z = 1	Z = 0	Z = 1
AB	CD	CD	Y	Y
00	01	01	0	0
01	10	01	0	0
10	10	01	0	1

$C = Z'(A+B)$
$D = Z + A'B'$
$Y = ZA$

	C	
AB/Z	0	1
00	0	0
01	1	0
11	X	X
10	1	0

	D	
AB/Z	0	1
00	1	1
01	0	1
11	X	X
10	0	1

	Y	
AB/Z	0	1
00	0	0
01	0	0
11	X	X
10	0	1

