

	Present state	Next state		Outputs						
		$w = 0$	$w = 1$							
	$y_2 y_1$	$Y_2 Y_1$	$Y_2 Y_1$	$R1_{out}$	$R1_{in}$	$R2_{out}$	$R2_{in}$	$R3_{out}$	$R3_{in}$	$Done$
A	0 0	0 0	0 1	0	0	0	0	0	0	0
B	0 1	1 0	1 0	0	0	1	0	0	1	0
C	1 0	1 1	1 1	1	0	0	1	0	0	0
D	1 1	0 0	0 0	0	1	0	0	1	0	1