

state 0	state 1	Input	Newstate 0	New State 1
0	0	0	0	0
0	0	1	0	1
0	1	0	0	0
0	1	1	1	0
1	0	0	1	1
1	0	1	1	0
1	1	0	0	0
1	1	1	0	1

State 0	State 1	output
0	0	0
0	1	0
1	0	0
1	1	1