Present	x (Input)	Next	Output			Present	x	Next	Output
S0	0	S0	0			000	0	000	0
S0	1	S1	0			000	1	001	0
S1	0	S0	0			001	0	000	0
S1	1	S2	0			001	1	010	0
S2	0	S0	0			010	0	000	0
S2	1	S3	0			010	1	011	0
S3	0	S0	0			011	0	000	0
S3	1	S4	0			011	1	100	0
S4	0	S5	0			100	0	101	0
S4	1	S4	0			100	1	100	0
S5	0	S6	0			101	0	110	0 0
S5	1	S1	0			101	1	001	0
S6	0	S0	0			110	0	000	0
S6	1	S7	0			110	1	111	0
S7	0	S0	1			111	0	000	1
S7	1	S2	0			111	1	010	0
				State Assignr	ment				
				S0	000				
				S1	001				
				S2	010				
				S3	011				
				S4	100				
				S5	101				
				S6	110				
				S7	111				