Inputs	PRESENT STATE		NEXT STATE		Output
	State	Binary	State	Binary	
00	S0	00	S0	00	00
01	S0	00	S0	00	00
10	S0	00	S0	00	00
11	S0	00	S1	01	01
00	S1	01	S0	00	00
01	S1	01	S0	00	00
10	S1	01	S0	00	00
11	S1	01	S2	10	10
00	S2	10	S2	10	10
01	S2	10	S2	10	10
10	S2	10	S2	10	10
11	S2	10	S3	11	11
00	S3	11	S0	00	00
01	S3	11	S0	00	00
10	S3	11	S3	11	11
11	S3	11	S3	11	11

Mealy Machine
.

Inputs	PRESENT STATE		NEXT STATE		Output
	State	Binary	State	Binary	
00	S0	000	S0	000	00
01	S0	000	S0	000	00
10	S0	000	S0	000	00
11	S0	000	S1	001	00
00	S1	001	S1	001	01
01	S1	001	S1	001	01
10	S1	001	S1	001	01
11	S1	001	S2	010	01
00	S2	010	S2	010	01
01	S2	010	S2	010	01
10	S2	010	S2	010	01
11	S2	010	S3	011	01
00	S3	011	S0	000	11
01	S3	011	S4	100	11
10	S3	011	S0	000	11
11	S3	011	S3	011	11
00	S4	100	S0	000	10
01	S4	100	S1	001	10
10	S4	100	S0	000	10
11	S4	100	S3	011	10

Moore Machine