Lab 8

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Question 1

Accepting State is S_4

State	Input	New State
S_0	0	S_0
S_0	1	S_1
S_1	0	S_2
S_2	1	S_3
S_3	0	S_2
S_2	1	S_3
S_3	1	S_4
S_4	0	S_2
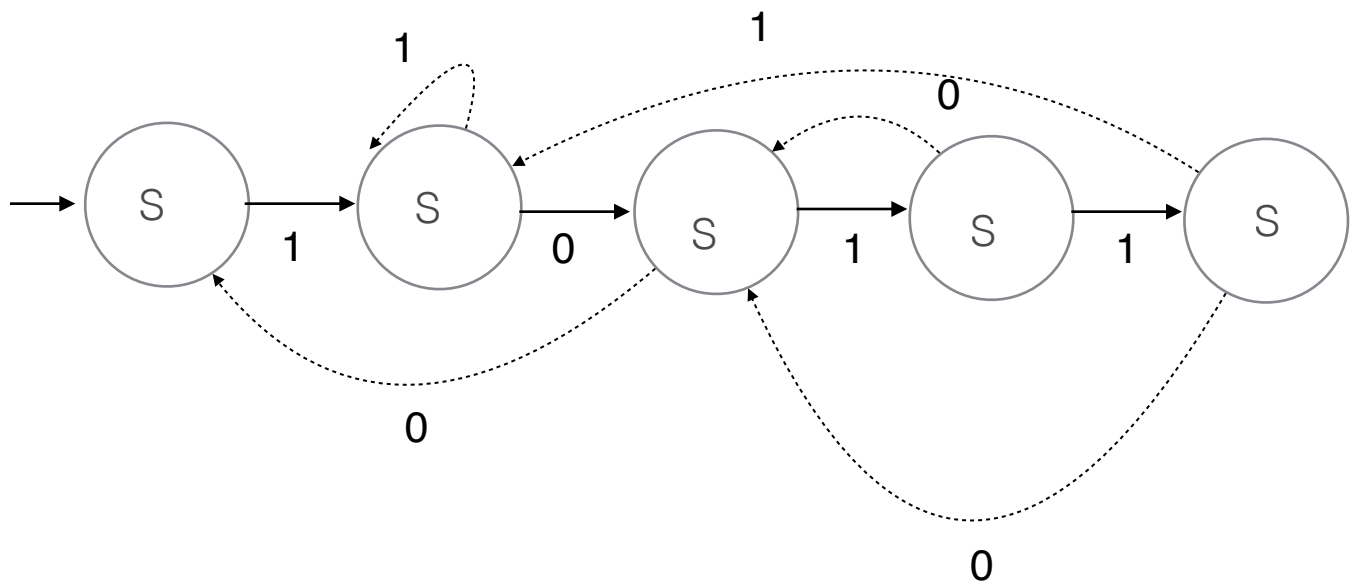
Question 2
1=even, 0 =Odd
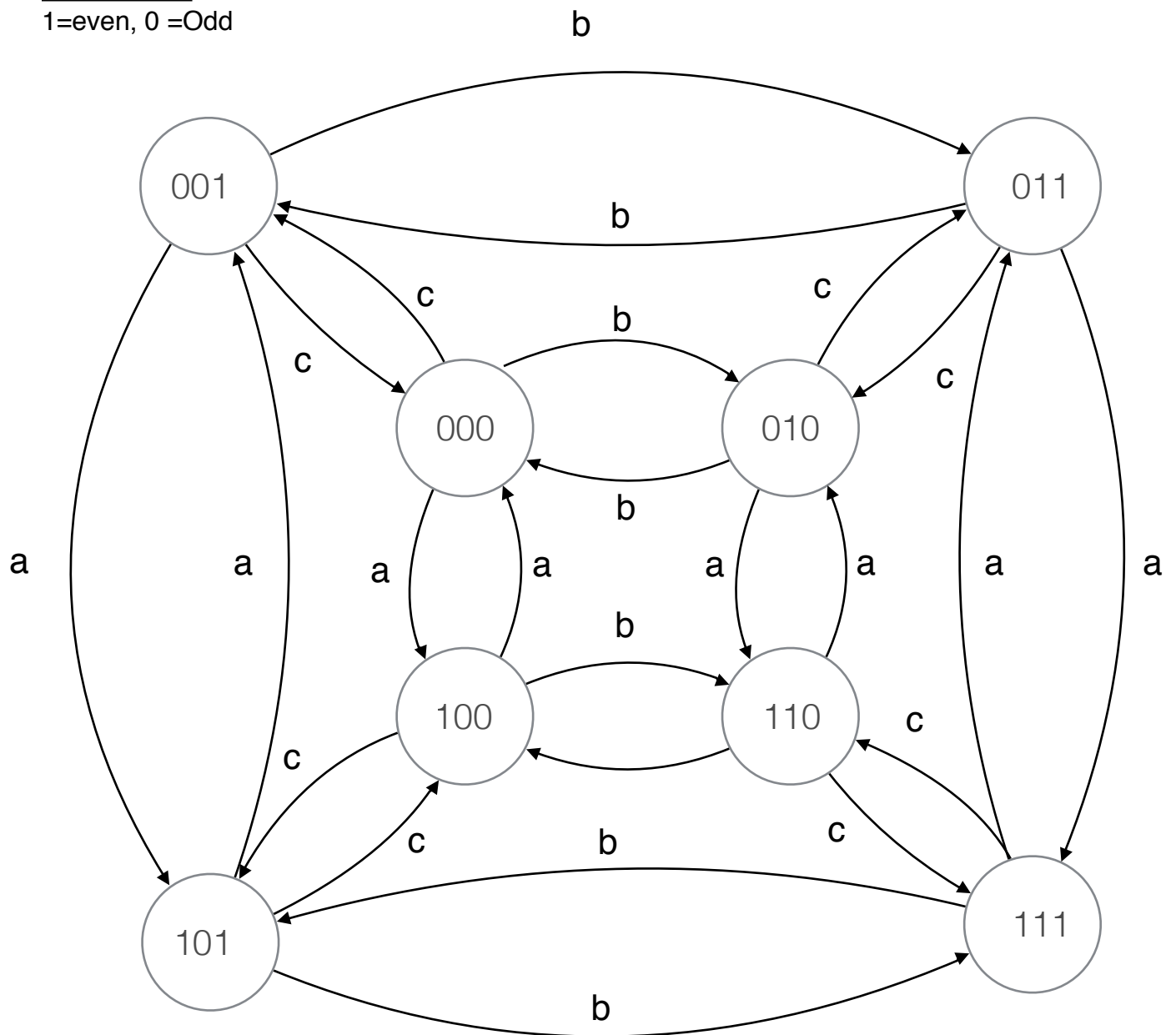
State	Input	New State
000	a	100
000	b	010
000	c	001
001	a	101
001	b	011
001	c	000
010	a	110
010	b	000
010	c	011
011	a	111
011	b	001
011	c	010
100	a	000
100	b	110
100	c	101
101	a	001
101	b	111
101	c	100
110	a	010
110	b	100
110	c	111
111	a	011
111	b	101
111	c	110

Question 3

S	State	Light 1	Light 2	Light 3	New State
0	Any	0	0	0	000
1	000	1	0	0	001
1	001	0	1	0	011
1	011	0	0	1	101
1	101	0	0	0	111
1	111	1	1	1	000