



Name: Abdul Rehman
Roll No: 19L-1135
Section: CS-D1
Course: Digital Logic Design Lab
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Post Lab #3

(a)

Input Equations:

$$D0 = \text{Cnt} \oplus Q0$$

$$D1 = \text{Cnt}' \cdot Q1 + \text{Cnt} \cdot Q0 \cdot Q1' + \text{Cnt} \cdot Q0' \cdot Q1$$

(b)

Output Equations:

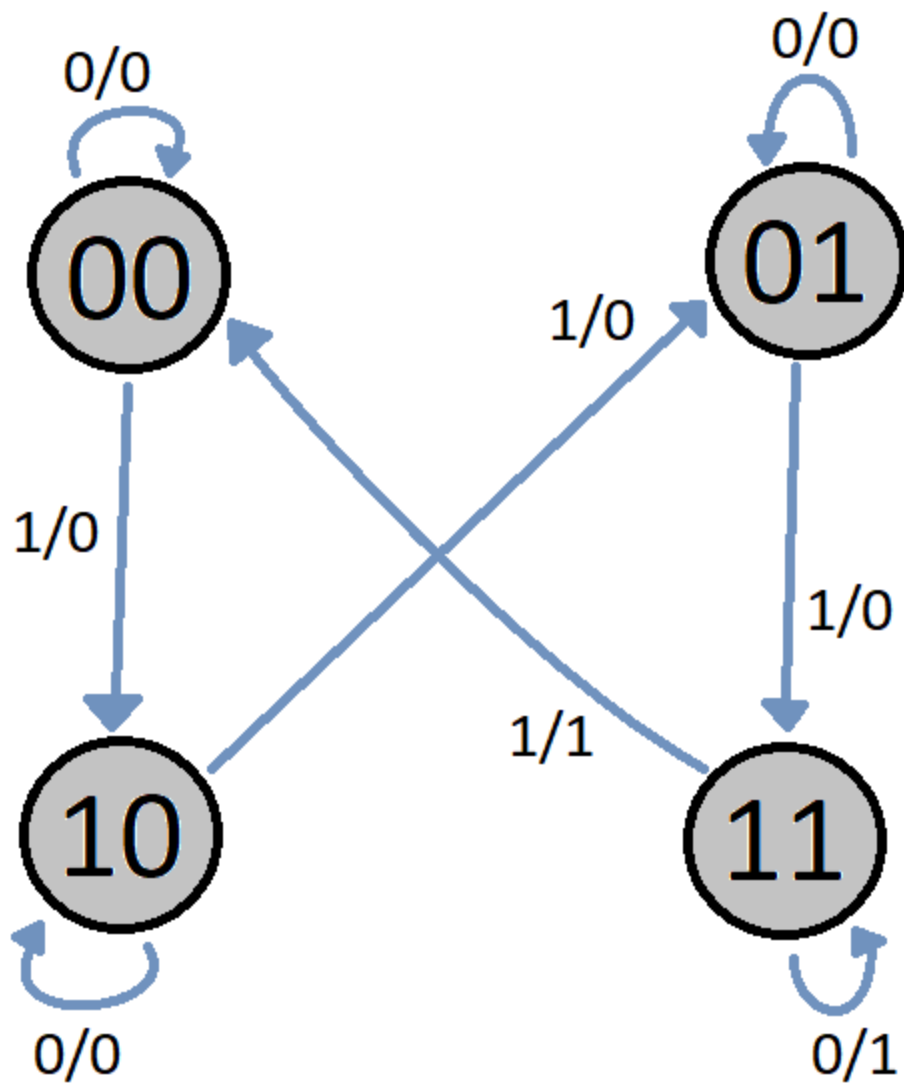
$$Y = Q0 \cdot Q1$$

(c)

Present State		Input	Next State		Output
Q0	Q1	Cnt	Q0	Q1	Y
0	0	0	0	0	0
0	0	1	1	0	0
0	1	0	0	1	0
0	1	1	1	1	0
1	0	0	1	0	0
1	0	1	0	1	0
1	1	0	1	1	1

1	1	1	0	0	1
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(d)



THANK YOU ☺

