Andrey Kurudimov
CISP 137
Take Home Quiz

Question 1)

First Four Digits of Student Id: 3017

Question 2)

Binary Representation Of the Student Id:

b1= 0011

b2= 0000

b3= 0001

b4= 0111

Question 3)

Sum of b1,b2,b3,b4…

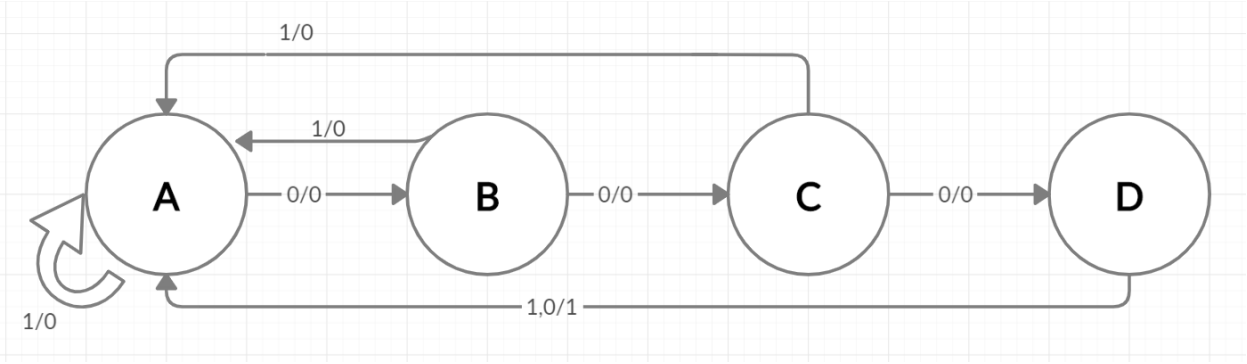
sum a1 = 01011

Question 4)

C1 = b2 = 0000

C2 = b3 = 0001

Question 5)



Andrey Kurudimov
CISP 137
Take Home Quiz

Question 6)

q1	q0	x	z
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
0	0	0	0
0	0	1	0
1	1	0	1
1	1	1	1

Output Truth Table

q1	q0	x	d1	d0
0	0	0	0	1
0	0	1	0	0
0	1	0	1	0
0	1	1	0	0
0	0	0	1	1
0	0	1	0	0
1	1	0	0	0
1	1	1	0	0

Next State Truth Table

	x				
q1q0		00	01	11	10
	0	1	0	0	1
	1	0	0	0	0

d0 kmap

	x				
q1q0		00	01	11	10
	0	0	1	0	1
	1	0	0	0	0

d1 kmap

	x				
q1q0		00	01	11	10
	0	0	0	1	0
	1	0	0	1	0

z output kmap

Z = q1q2

d1 = q1 !q0 x + !q1 q0 !x

d0 = !q0 !x

Question 7)

Didn't have time to do this or the circuit for number 6 due to some work (I work as a developer) projects that came up. You know for work I do stuff that is actually programming, like modern day programming, not time wasters like this entire class of irrelevant material. Unfortunately taking an L on this time waster here.

Andrey Kurudimov
CISP 137
Take Home Quiz

Question 8)