

1

A	B	C	X	Y	Z
0	0	0	1	1	1
0	0	1	0	1	1
0	1	0	0	0	1
0	1	1	0	0	0
1	0	0	1	0	0
1	0	1	1	1	0
1	1	0	X	X	X
1	1	1	X	X	X

X	BC	00	01	11	10
A	0	1	0	0	0
A	1	1	1	X	X

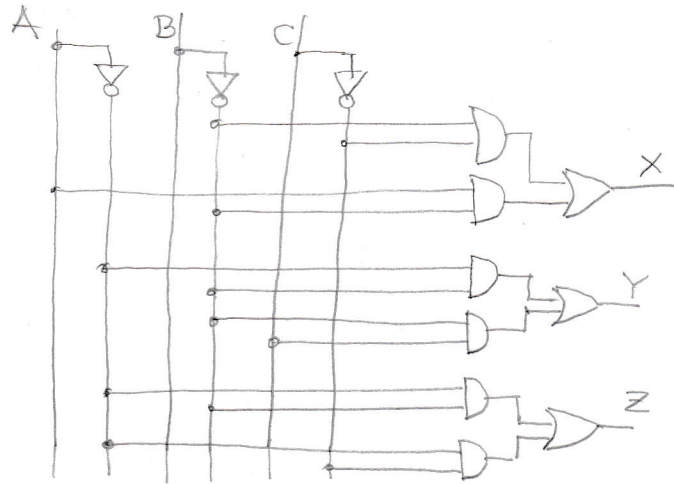
$$X = \overline{B}C + A\overline{B}$$

Y	BC	00	01	11	10
A	0	1	1	0	0
A	1	0	1	X	X

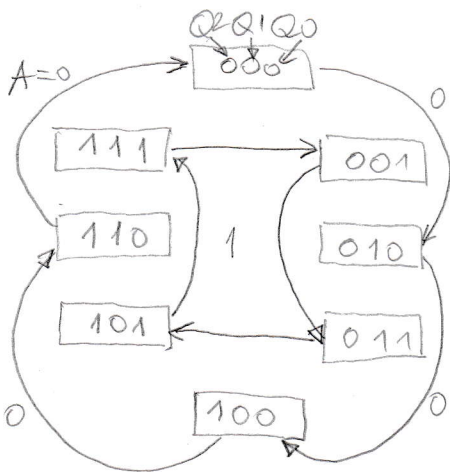
$$Y = \overline{A}\overline{B} + \overline{B}C$$

Z	BC	00	01	11	10
A	0	1	1	0	1
A	1	0	0	X	X

$$Z = \overline{A}\overline{B} + \overline{A}C$$



2



	n				n+1			
	A	Q2	Q1	Q0	Q2	Q1	Q0	
0	0	0	0	0	0	1	0	
0	0	0	0	1	X	X	X	
0	0	1	0	0	1	0	0	
0	0	1	1	1	X	X	X	
0	1	0	0	0	1	1	0	
0	1	0	1	0	X	X	X	
0	1	1	0	0	0	0	0	
0	1	1	1	1	X	X	X	
1	0	0	0	0	X	X	X	
1	0	0	1	0	0	1	1	
1	0	1	0	0	X	X	X	
1	0	1	1	1	1	0	1	
1	1	0	0	0	X	X	X	
1	1	0	1	0	1	1	1	
1	1	1	0	1	1	1	1	
1	1	1	1	0	X	X	X	
1	1	1	1	1	0	0	1	

$$D_2 = Q_2(n+1), D_1 = Q_1(n+1)$$

$$D_0 = Q_0(n+1)$$

D2	Q1	Q0	00	01	11	10
AQ2	00	0	X	X	1	
AQ2	01	1	X	X	0	
AQ2	11	X	1	0	X	
AQ2	10	X	0	1	X	

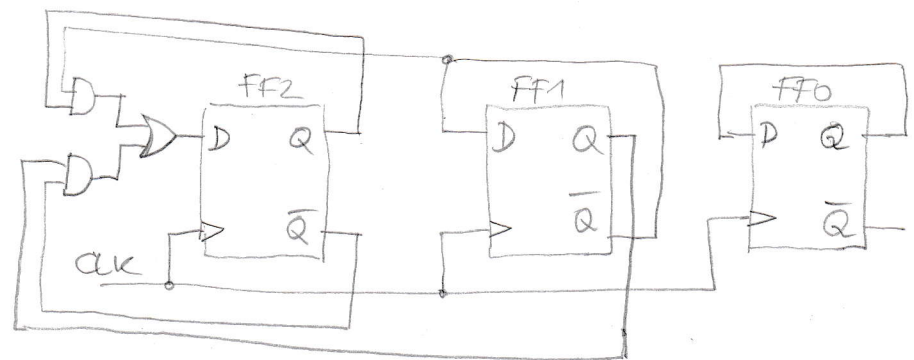
$$D_2 = Q_2\overline{Q_1} + \overline{Q_2}Q_1$$

D1	Q1	Q0	00	01	11	10
AQ2	00	1	X	X	0	
AQ2	01	1	X	X	0	
AQ2	11	X	1	0	X	
AQ2	10	X	1	0	X	

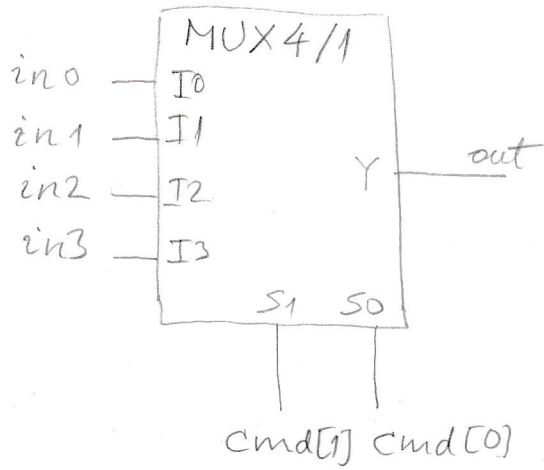
$$D_1 = \overline{Q_1}$$

D0	Q1	Q0	00	01	11	10
AQ2	00	0	X	X	0	
AQ2	01	0	X	X	0	
AQ2	11	X	1	1	X	
AQ2	10	X	1	1	X	

$$D_0 = Q_0$$



3



4

