

①

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

X

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

Y

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

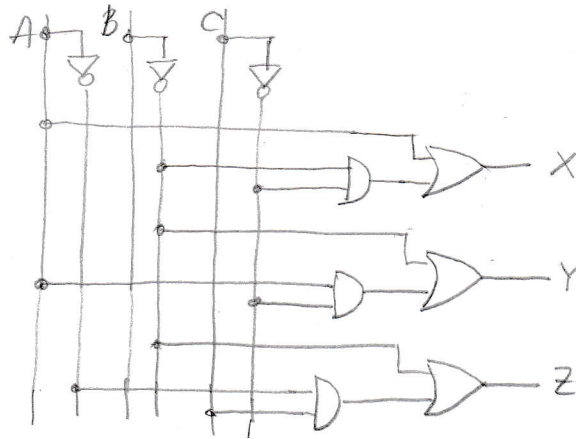
Z

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

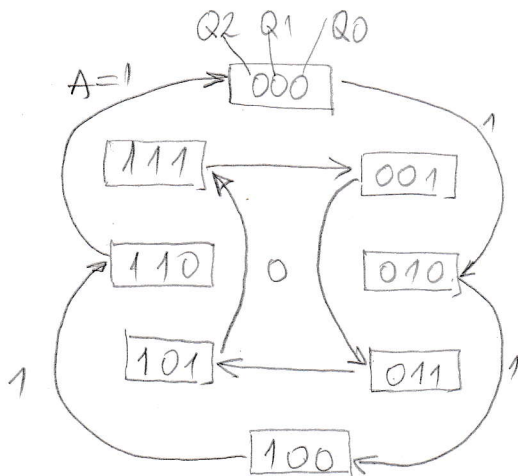
$$X = A + \overline{B}\overline{C}$$

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

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



②



$$D2 = Q2(n+1); D1 = Q1(n+1); D0 = Q0(n+1)$$

D2

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

D1

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

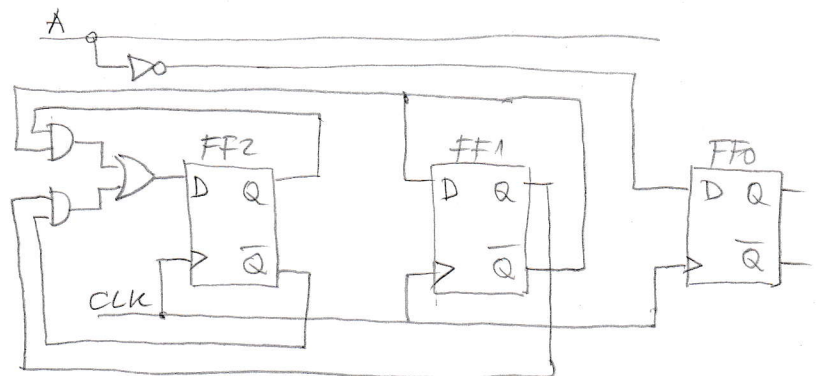
$$D2 = Q2\overline{Q1} + \overline{Q2} \cdot Q1$$

$$D1 = \overline{Q1}$$

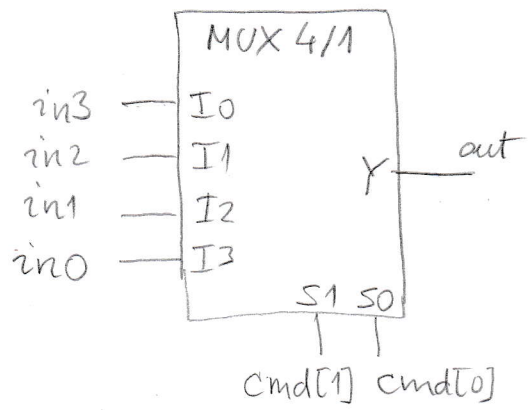
D0

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

$$D0 = \overline{A}$$



A	Q2	Q1	Q0	Q2	Q1	Q0
0	0	0	0	X	X	X
0	0	0	1	0	1	1
0	0	1	0	X	X	X
0	0	1	1	1	0	1
0	1	0	0	X	X	X
0	1	0	1	1	1	1
0	1	1	0	X	X	X
0	1	1	1	0	0	1
1	0	0	0	0	1	0
1	0	0	1	X	X	X
1	0	1	0	1	0	0
1	0	1	1	X	X	X
1	1	0	0	1	1	0
1	1	0	1	X	X	X
1	1	1	0	0	0	0
1	1	1	1	X	X	X



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