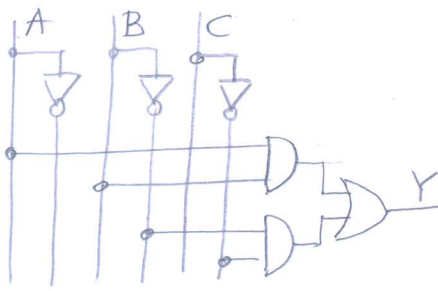


①



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

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

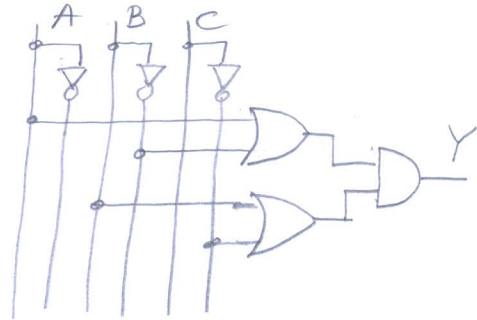
Y	1	1	1	1
---	---	---	---	---

A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	1
1	1	1	1

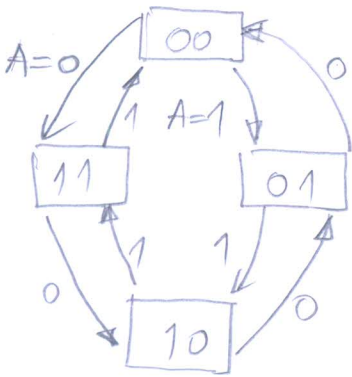
$$\overline{Y} = \overline{B}C + \overline{A}B$$

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

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



②



	Q1 Q0			
D1	00	01	11	10
A 0	1	0	1	0
A 1	0	1	0	1

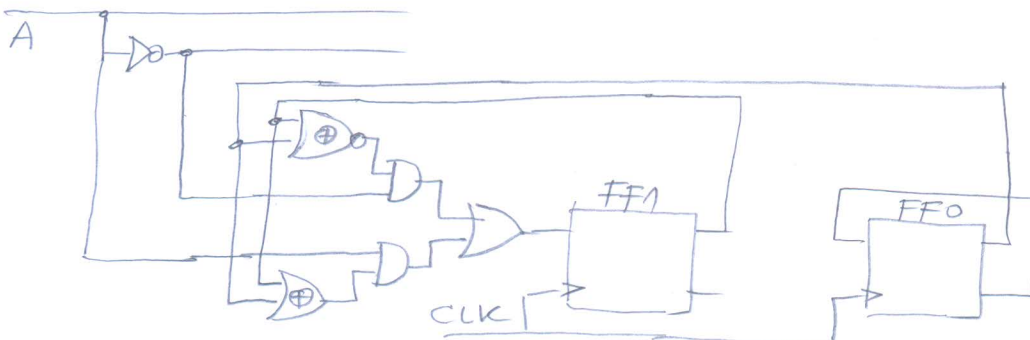
$$D1 = \overline{A} \overline{Q1} \overline{Q0} + \overline{A} Q1 Q0 + A \overline{Q1} Q0 + A Q1 \overline{Q0}$$

$$D1 = \overline{A} (\overline{Q1} \oplus Q0) + A (Q1 \oplus \overline{Q0})$$

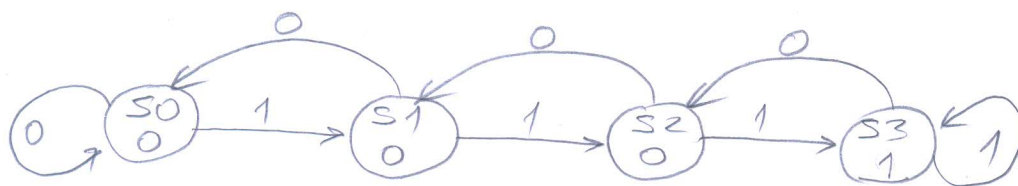
	n		n+1	
A	Q1	Q0	Q1	Q0
0	0	0	1	1
0	0	1	0	0
0	1	0	0	1
0	1	1	1	0
1	0	0	0	1
1	0	1	1	0
1	1	0	1	1
1	1	1	0	0

	Q1 Q0			
D0	00	01	11	10
A 0	1	0	0	1
A 1	1	0	0	1

$$D0 = \overline{Q0}$$



③



Ha három órajel ciklusban logikai egyséket a bemenetre, a kimenet egy órajel ciklusban logikai egységre vált, egyébként nulla.

Az a azastopnál tri tákt intervalló na utas dobat. logickas jedinica, izlas treba postaviti na logicku jedinicu. U srim ostalim slucajevima izlas treba da je na nuli.

④

