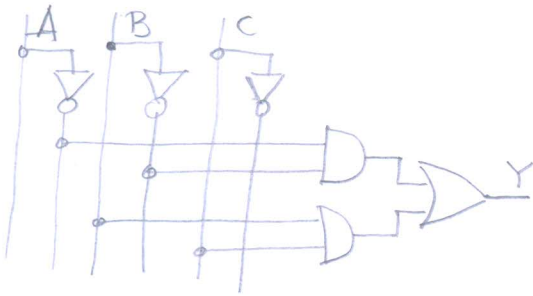


①



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

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

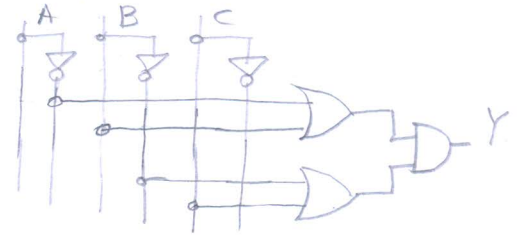
A	B	C	Y
0	0	0	1
0	0	1	1
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1

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

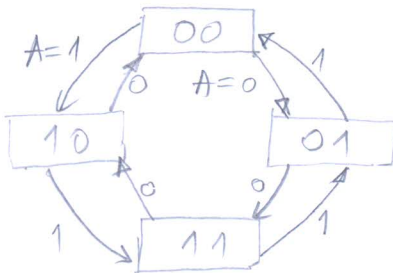
$$\overline{Y} = A\overline{B} + B\overline{C}$$

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

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



②



	n		n+1		
A	Q1	Q0	Q1	Q0	D1 D0
0	0	0	0	1	0 1
0	0	1	1	1	1 1
0	1	0	0	0	0 0
0	1	1	1	0	1 0
1	0	0	1	0	1 0
1	0	1	0	0	0 0
1	1	0	1	1	1 1
1	1	1	0	1	0 1

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

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

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

$$D0 = \overline{A} \cdot Q1 + A \cdot Q1$$

