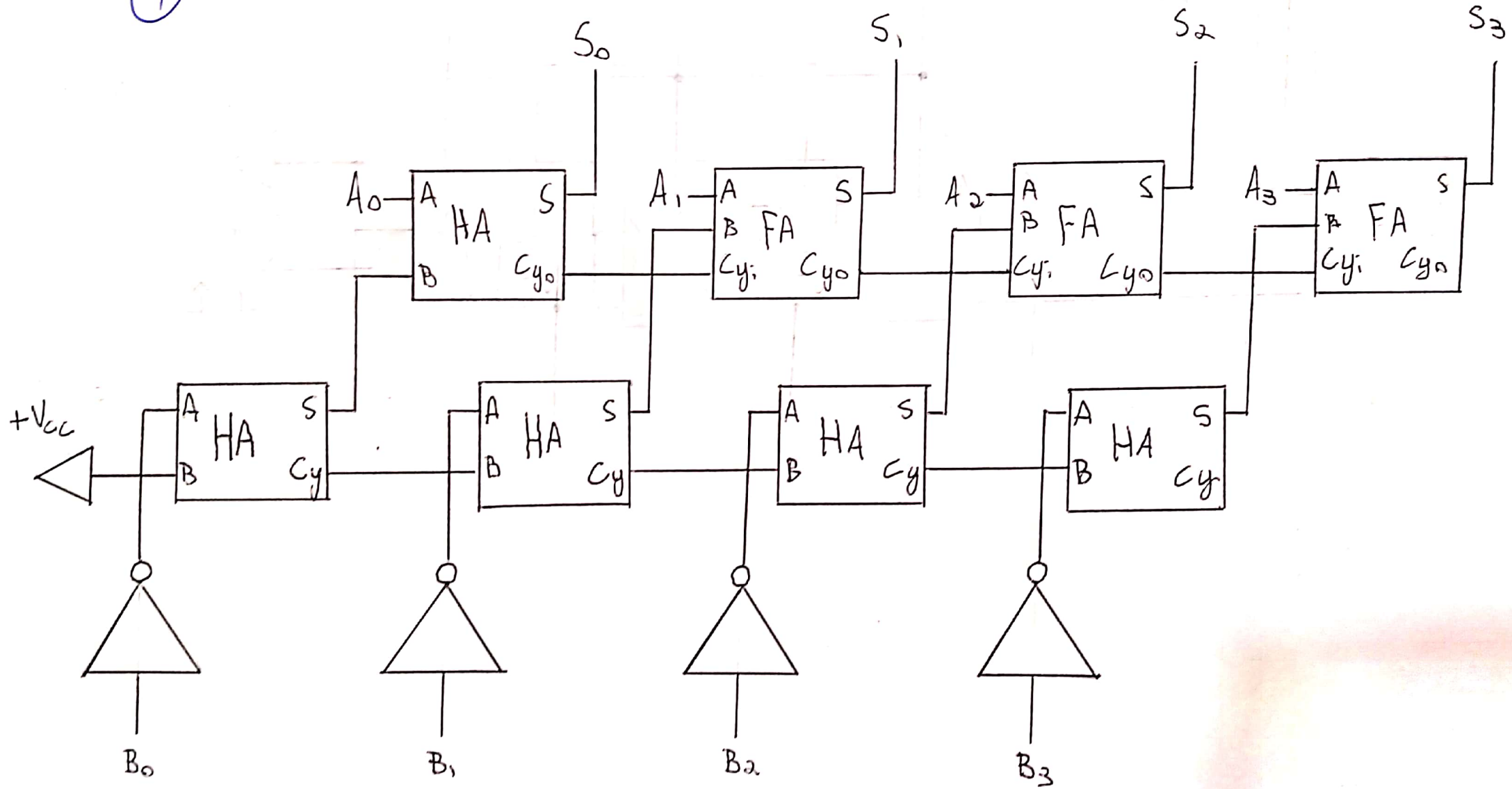


(1)

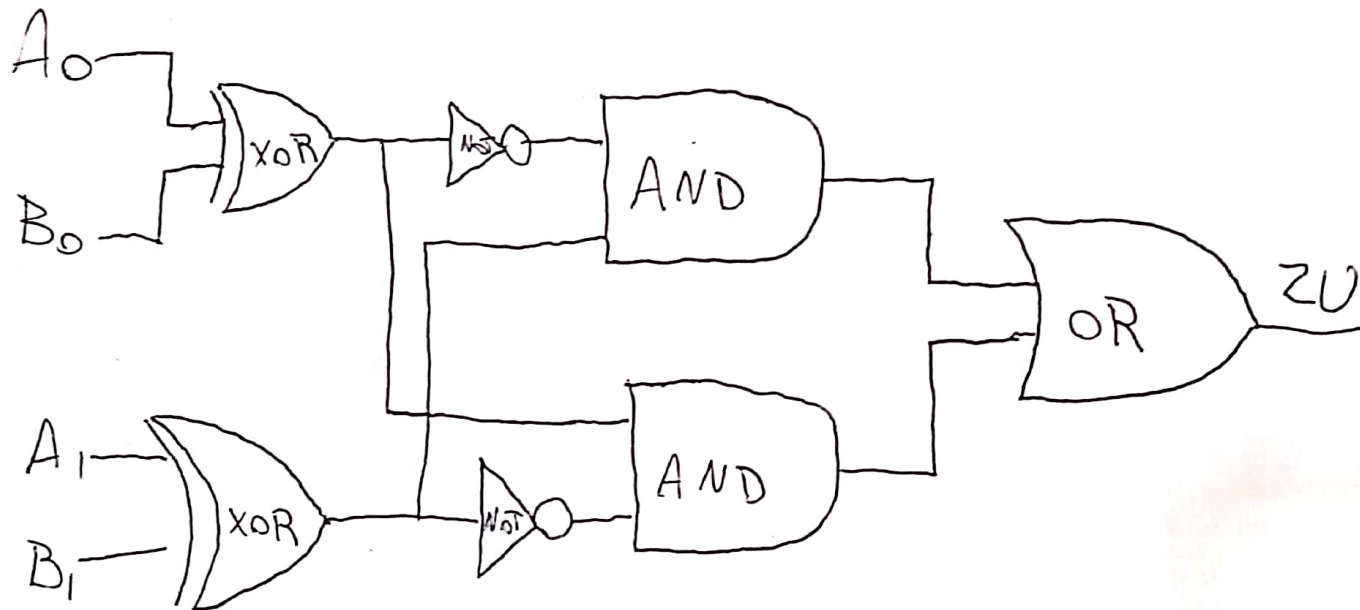


② A saída deve ser 1 quando $A_0 \neq B_0$ e $A_1 = B_1$ ou $A_0 = B_0$ e $A_1 \neq B_1$. Para fazer essa comparação bit a bit podemos utilizar as portas exclusivas:

$$A_0 = B_0 \Rightarrow \overline{A_0 \oplus B_0} \quad A_0 \neq B_0 \Rightarrow A_0 \oplus B_0$$

$$A_1 = B_1 \Rightarrow \overline{A_1 \oplus B_1} \quad A_1 \neq B_1 \Rightarrow A_1 \oplus B_1$$

$$ZU = (A_0 \oplus B_0) \overline{(A_1 \oplus B_1)} + \overline{(A_0 \oplus B_0)} (A_1 \oplus B_1)$$



③

E_2	E_1	E_0	S_0	S_1	S_2	S_3	S_4	S_5	S_6	S_7
0	0	0	0	1	1	1	1	1	1	1
0	0	1	1	0	1	1	1	1	1	1
0	1	0	1	1	0	1	1	1	1	1
0	1	1	1	1	1	0	1	1	1	1
1	0	0	1	1	1	1	0	1	1	1
1	0	1	1	1	1	1	1	0	1	1
1	1	0	1	1	1	1	1	1	0	1
1	1	1	1	1	1	1	1	1	1	0

$$S_0 = E_0 + E_1 + E_2$$

$$S_1 = \bar{E}_0 + E_1 + E_2$$

$$S_2 = E_0 + \bar{E}_1 + E_2$$

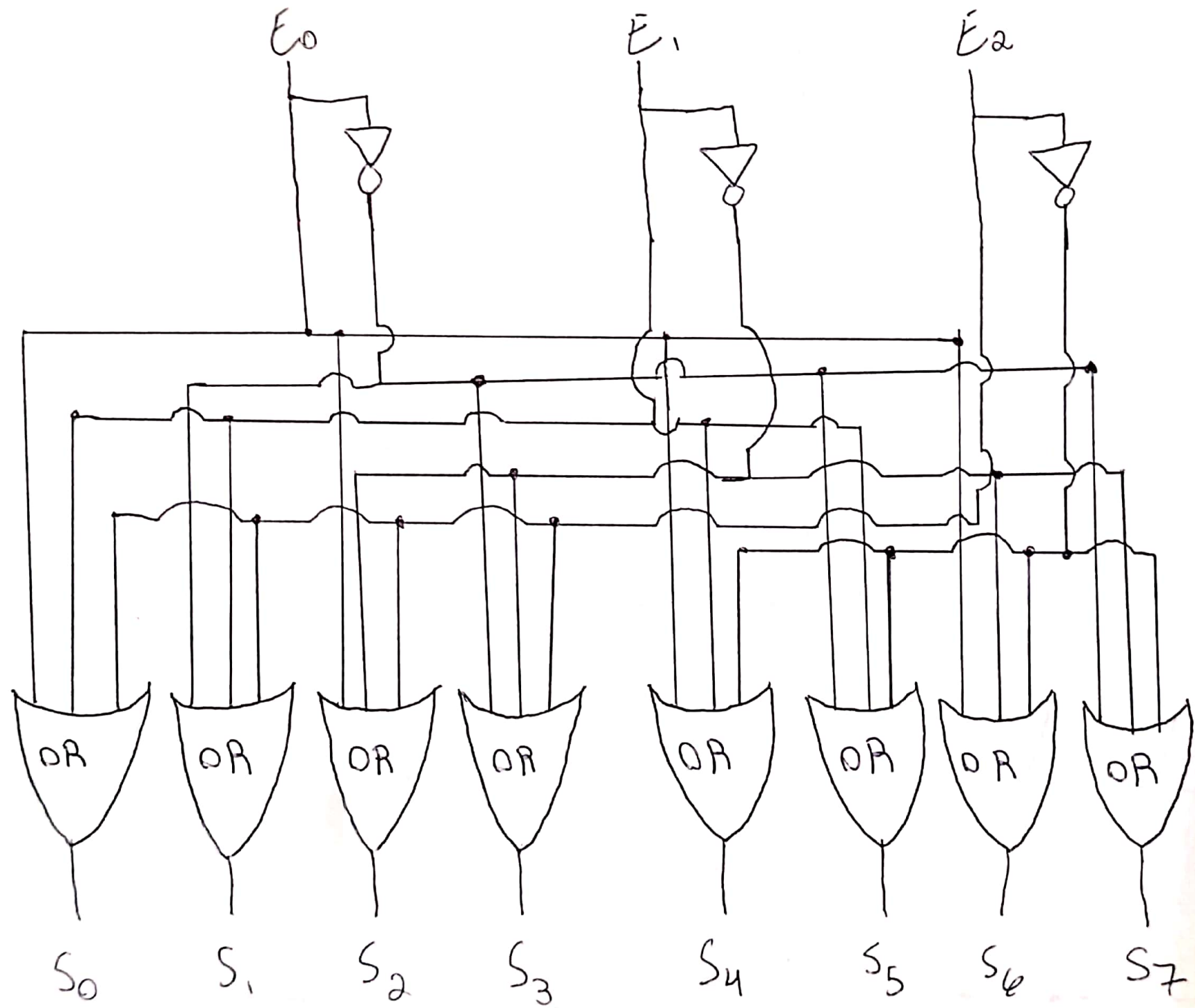
$$S_3 = \bar{E}_0 + \bar{E}_1 + E_2$$

$$S_4 = E_0 + E_1 + \bar{E}_2$$

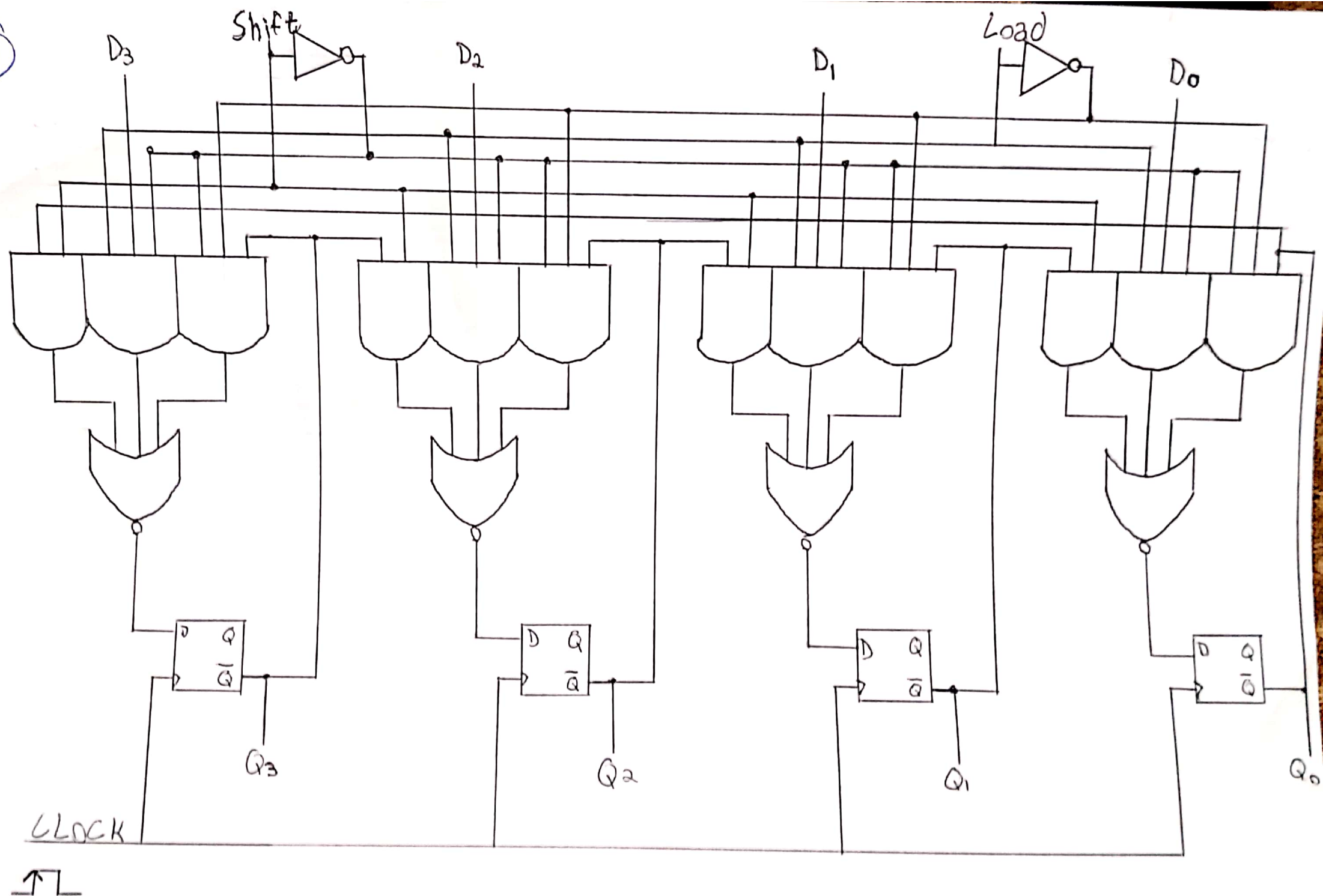
$$S_5 = \bar{E}_0 + E_1 + \bar{E}_2$$

$$S_6 = E_0 + \bar{E}_1 + \bar{E}_2$$

$$S_7 = \bar{E}_0 + \bar{E}_1 + \bar{E}_2$$



4



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