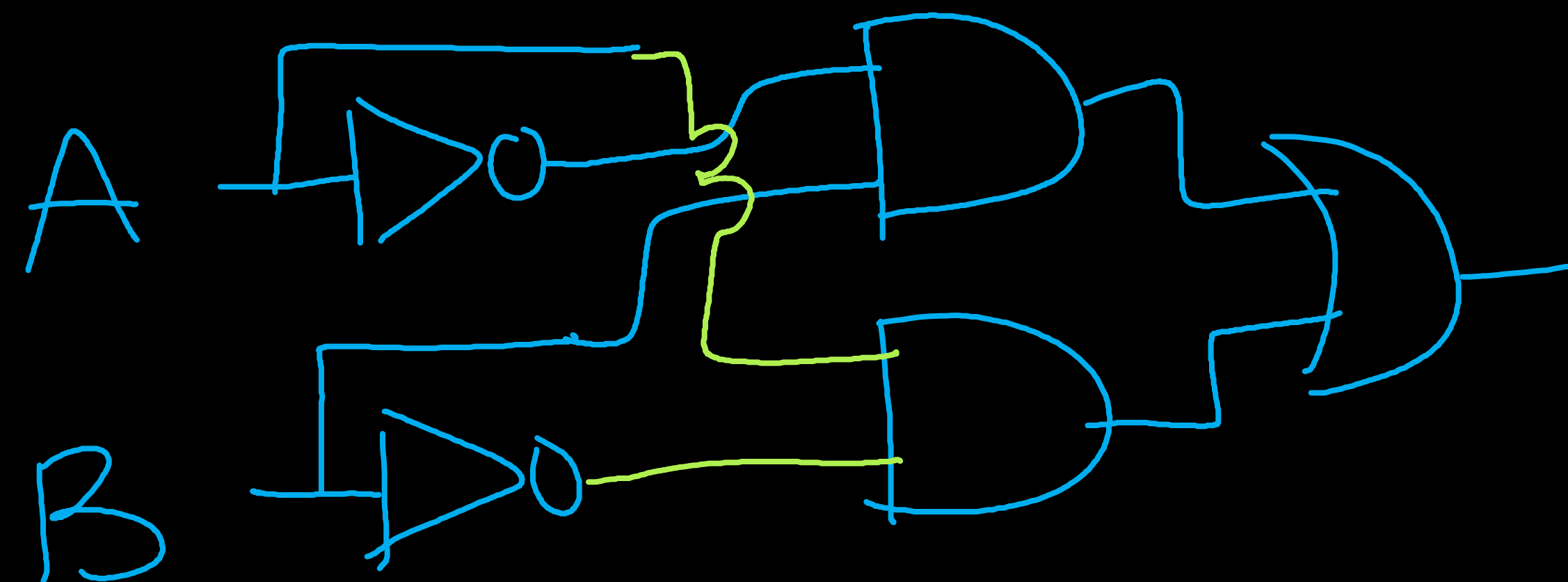
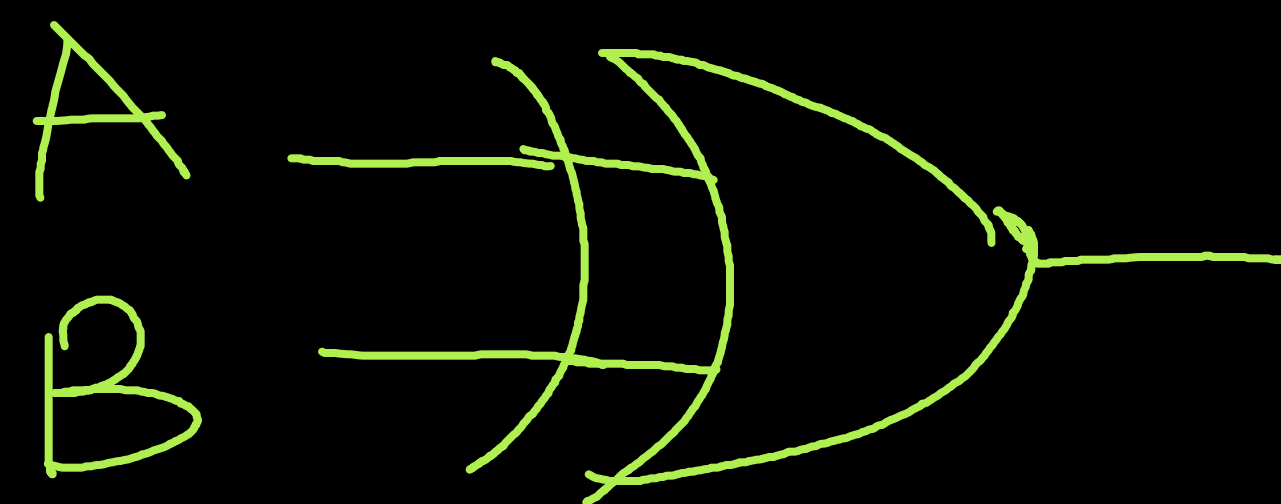


A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

$$S = \bar{A}B + A\bar{B}$$



XOR



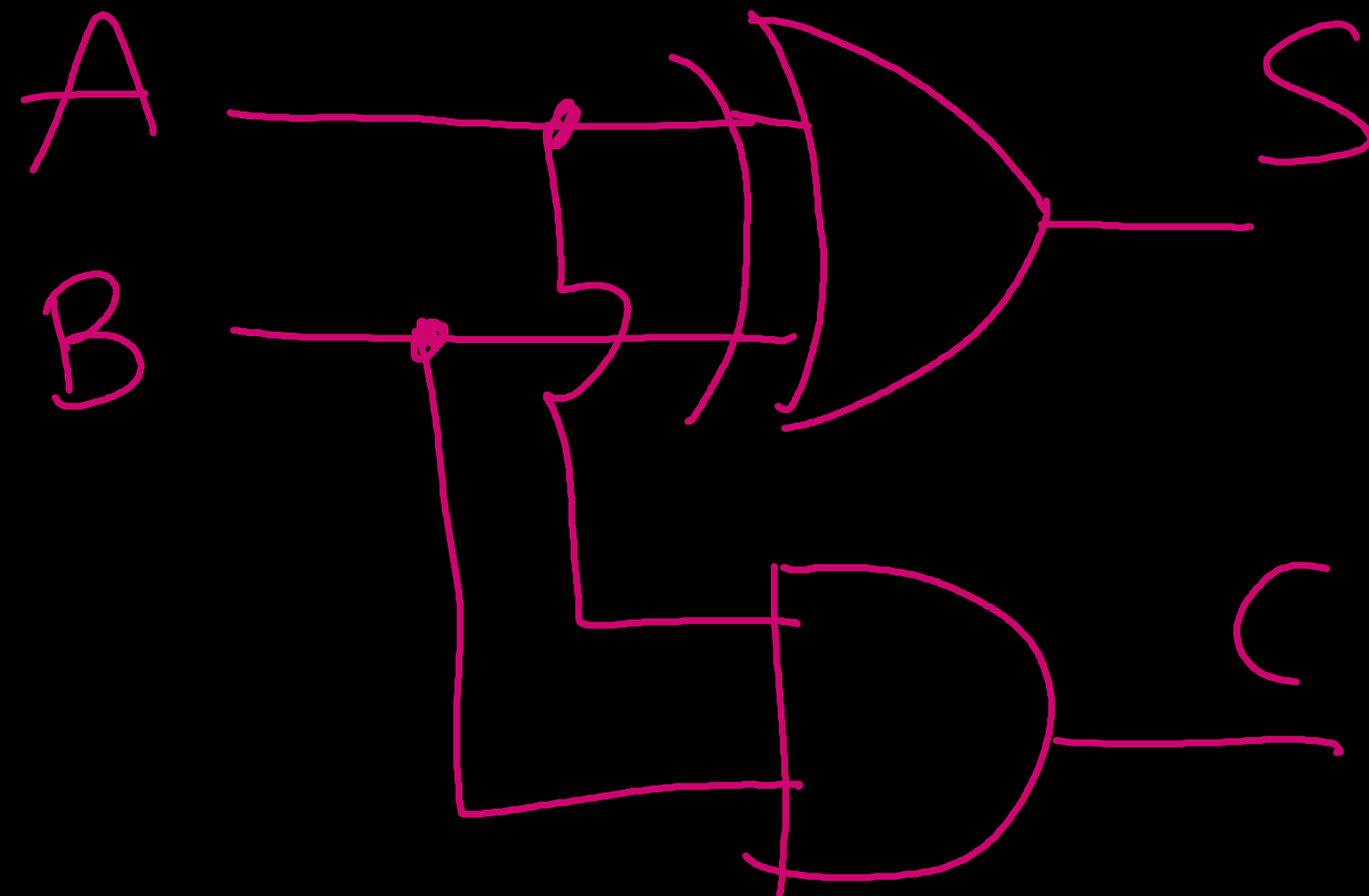
$$S = A \oplus B$$

$$\begin{array}{cccc}
 + & 0 & + & 0 \\
 0 & 1 & 0 & 1 \\
 \hline
 0 & 1 & 1 & 10
 \end{array}$$

A	B	S	C
0	0	0	0
0	1	1	0
1	0	1	0
1	1	0	1

$$S = \bar{A}B + A\bar{B} = A \oplus B$$

$$C = AB \Rightarrow$$



SEMISUMADOR

$$S = A + B$$

$$S = (A + B) + C$$

A	B	C	S	C
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1

$$S = \bar{A}\bar{B}C + \bar{A}B\bar{C} + A\bar{B}\bar{C} + ABC$$

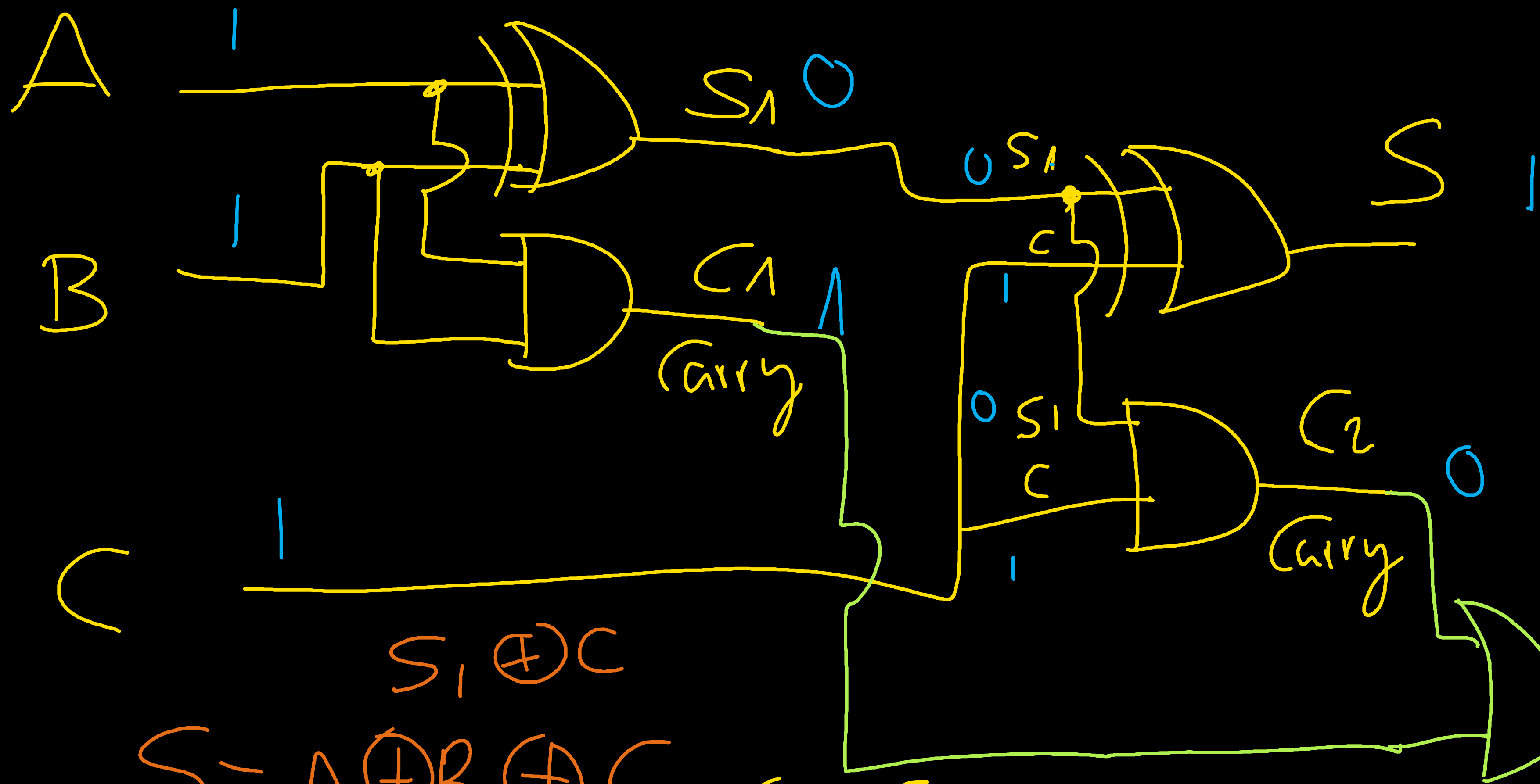
$$C = BC + AB + AC$$

S

AB \ C	0	1
0 0	0	1
0 1	1	0
1 1	0	1
1 0	1	0

C

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



C	C ₁	C ₂	S
0	0	0	0
0	0	0	1
0	0	0	1
1	0	1	0
0	0	0	1
1	0	1	0
1	1	0	0
1	1	0	1

$$S_1 \oplus C$$

$$S = A \oplus B \oplus C \quad \underline{S_1 \cdot C}$$

$$C = AB + \underline{A \oplus B \cdot C}$$

C₁
C₂

