



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

Expressão implementada

$$S = \overline{(A + B + \overline{A} \overline{C})} (A + B) \oplus \overline{(B + D)} (A + B + \overline{A} \overline{C})$$

Expressão simplificada

$$S = A \oplus D + B$$

