

S_a $D_{3:2}$

$D_{1:0}$

	00	01	11	10
00	1	0	X	1
01	0	1	X	1
11	1	1	X	X
10	1	1	X	X

$$S_a = D_3 + D_2 D_0 + \overline{D_2} \overline{D_0} + D_1$$

S_b $D_{3:2}$

$D_{1:0}$

	00	01	11	10
00	1	1	X	1
01	1	0	X	1
11	1	1	X	X
10	1	0	X	X

$$S_b = \overline{D_2} + D_1 D_0 + \overline{D_1} \overline{D_0}$$