

Hex	D ₃	D ₂	D ₁	D ₀	S _a	S _b	S _c	S _d	S _e	S _f	S _g
0	0	0	0	0	0	0	0	0	0	0	1
1	0	0	0	1	1	0	0	1	1	1	1
2	0	0	1	0	0	0	1	0	0	1	0
3	0	0	1	1	0	0	0	0	1	1	0
4	0	1	0	0	1	0	0	1	1	0	0
5	0	1	0	1	0	1	0	0	1	0	0
6	0	1	1	0	0	1	0	0	0	0	0
7	0	1	1	1	0	0	0	1	1	1	1
8	1	0	0	0	0	0	0	0	0	0	0
9	1	0	0	1	0	0	0	0	1	0	0
A	1	0	1	0	0	0	0	1	0	0	0
B	1	0	1	1	1	1	0	0	0	0	0
C	1	1	0	0	0	1	1	0	0	0	1
D	1	1	0	1	1	0	0	0	0	1	0
E	1	1	1	0	0	1	1	0	0	0	0
F	1	1	1	1	0	1	1	1	0	0	0

S_a $D_3 D_2$

00011110

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

$D_1 D_0$

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

S_e

		$D_3 D_2$			
		00	01	11	10
$D_1 D_0$	00	0	1	0	0
	01	1	1	0	1
	11	1	1	0	0
	10	0	0	0	0

$$S_e = \bar{D}_2 \bar{D}_1 D_0 + \bar{D}_3 D_2 \bar{D}_1 + \bar{D}_3 D_2 D_0 + \bar{D}_3 \bar{D}_2 D_0$$

S_f

		$D_3 D_2$			
		00	01	11	10
$D_1 D_0$	00	0	0	0	0
	01	1	0	1	0
	11	1	1	0	0
	10	1	0	0	0

$$S_f = \bar{D}_3 \bar{D}_2 D_0 + \bar{D}_3 \bar{D}_2 D_1 + \bar{D}_3 D_1 D_0 + D_3 D_2 \bar{D}_1 D_0$$

S_g

		$D_3 D_2$			
		00	01	11	10
$D_1 D_0$	00	1	0	1	0
	01	1	0	0	0
	11	0	1	0	0
	10	0	0	0	0

$$S_g = \bar{D}_3 \bar{D}_2 \bar{D}_1 + D_3 D_2 \bar{D}_1 \bar{D}_0 + \bar{D}_3 D_2 D_1 D_0$$

S_b

		$D_3 D_2$			
		00	01	11	10
$D_1 D_0$	00	0	0	1	0
	01	0	1	0	0
	11	0	0	1	1
	10	0	1	1	0

$$S_b = D_2 D_1 \bar{D}_0 + D_3 D_1 D_0 + D_3 D_2 \bar{D}_0 + \bar{D}_3 D_2 \bar{D}_1 D_0$$

S_c

		$D_3 D_2$			
		00	01	11	10
$D_1 D_0$	00	0	0	1	0
	01	0	0	0	0
	11	0	0	1	0
	10	1	0	1	0

$$S_c = D_3 D_2 \bar{D}_0 + D_3 D_2 D_1 + \bar{D}_3 \bar{D}_2 D_1 \bar{D}_0$$

S_d

		$D_3 D_2$			
		00	01	11	10
$D_1 D_0$	00	0	1	0	0
	01	1	0	0	0
	11	0	1	1	0
	10	0	0	0	1

$$S_d = D_2 D_1 D_0 + \bar{D}_3 \bar{D}_2 \bar{D}_1 D_0 + \bar{D}_3 D_2 \bar{D}_1 \bar{D}_0 + D_3 \bar{D}_2 D_1 \bar{D}_0$$