

Q_n	Q_{n+1}	a	b	c	d	e	f	g
0000	0001	0	0	0	0	1	1	0
0001	0010	0	0	1	0	1	0	1
0010	0011	1	0	0	0	1	1	1
0011	0100	1	1	0	1	1	0	1
0100	0101	0	1	1	0	0	1	1
0101	0110	1	0	1	1	0	1	1
0110	0111	0	0	0	1	1	1	0
0111	1000	1	1	1	0	1	1	1
1000	1001	0	0	0	1	1	1	0
1001	1010	0	0	0	1	1	1	0
1010	1011	1	0	0	1	1	1	1
1011	1100	0	1	1	1	1	1	0
1100	1101	1	1	1	0	1	1	1
1101	1110	0	0	0	1	1	1	0
1110	1111	1	1	1	0	0	0	0
1111	0000	0	1	1	0	1	1	1

Mapas de Karnaught

B_3B_2/B_1B_0	00	01	11	10
00	0	0	1	1
01	0	1	1	0
11	1	0	0	1
10	0	0	0	1

$$a = -B_3-B_2B_1 + -B_3B_2B_0 + B_3B_1-B_0 + B_3B_2-B_0$$

B_3B_2/B_1B_0	00	01	11	10
00	0	0	1	0
01	1	0	1	0
11	1	0	1	1
10	0	0	1	0

$$b = B_1B_0 + B_3B_2B_1 + B_2-B_1-B_0$$

B_3B_2/B_1B_0	00	01	11	10
00	0	1	0	0
01	1	1	1	0
11	1	0	1	1
10	0	0	1	0

$$c = -B_1-B_0B_2 + -B_3-B_1B_0 + B_3B_1B_0 + B_1B_3B_2 + B_2B_1B_0$$

B_3B_2/B_1B_0	00	01	11	10
00	0	0	1	0
01	0	1	0	1
11	0	1	0	0
10	1	1	1	1

$$d = B_3-B_2 + B_2-B_1B_0 + -B_3B_2B_1-B_0 + -B_2B_1B_0$$

B_3B_2/B_1B_0	00	01	11	10
00	1	1	1	1
01	0	0	1	1
11	1	1	1	0
10	1	1	1	1

$$e = -B_2 + -B_1B_3 + B_0B_1 + -B_3B_1$$

B_3B_2/B_1B_0	00	01	11	10
00	1	0	0	1
01	1	1	1	1
11	1	1	1	0
10	1	1	1	1

$$f = -B_1B_2 + B_3-B_2 + B_2B_0 + -B_3-B_0$$

B_3B_2/B_1B_0	00	01	11	10
00	0	1	1	1
01	1	1	1	0
11	1	0	1	0
10	0	0	0	1

$$g = -B_2B_1-B_0 + -B_3B_0 + B_2B_1B_0 + B_2-B_1-B_0$$

Flip Flop Tipo D

B_3B_2/B_1B_0	00	01	11	10
00	0	0	0	0
01	0	0	1	0
11	1	1	0	1
10	1	1	1	1

$$B_3 = B_3-B_2 + B_3-B_1 + B_3-B_0 + -B_3B_2B_1B_0$$

B_3B_2/B_1B_0	00	01	11	10
00	0	0	1	0
01	1	1	0	1
11	1	1	0	1
10	0	0	1	0

$$B_2 = -B_1B_2 + -B_0B_2 + -B_2B_1B_0$$

B_3B_2/B_1B_0	00	01	11	10
00	0	1	0	1
01	0	1	0	1
11	0	1	0	1
10	0	1	0	1

$$B_1 = -B_1B_0 + B_1-B_0$$

B_3B_2/B_1B_0	00	01	11	10
00	1	0	0	1
01	1	0	0	1
11	1	0	0	1
10	1	0	0	1

$$B_0 = -B_0$$