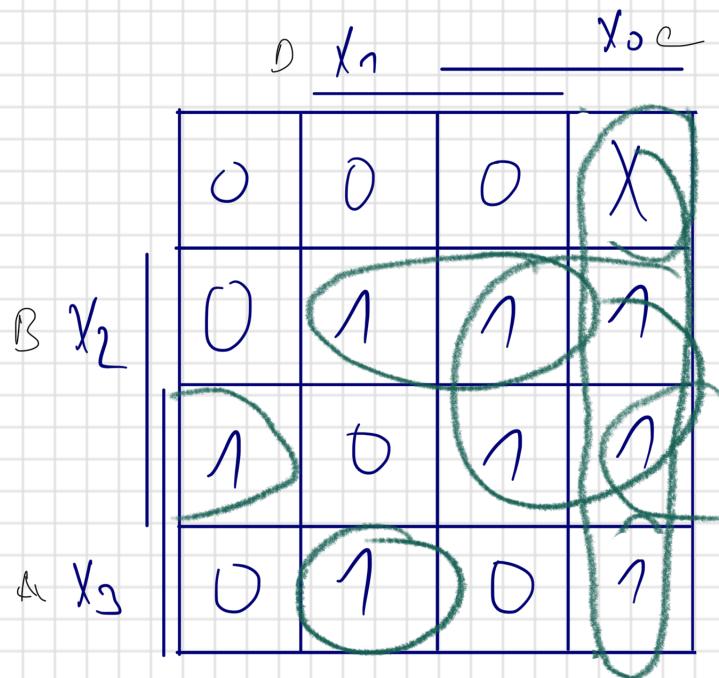


$$F_2(x_3, x_2, x_1, x_0) = \sum_m (5, 6, 7, 9, 10, 12, 13, 15) + \sum_d (1)$$

$$\begin{aligned} F_2 &= \bar{x}_3 \cdot x_2 \cdot \bar{x}_1 \cdot x_0 + \bar{x}_3 \cdot x_2 \cdot x_1 \cdot \bar{x}_0 \\ &\quad + \bar{x}_3 \cdot x_2 \cdot x_1 \cdot x_0 + x_3 \cdot \bar{x}_2 \cdot \bar{x}_1 \cdot x_0 \end{aligned}$$

$$\begin{aligned} &\quad + x_3 \cdot \bar{x}_2 \cdot x_1 \cdot \bar{x}_0 + x_3 \cdot x_2 \cdot x_1 \cdot x_0 \\ &\quad + x_3 \cdot x_2 \cdot \bar{x}_1 \cdot x_0 + x_3 \cdot x_2 \cdot x_1 \cdot x_0 \end{aligned}$$

	x_3	x_2	x_1	x_0	F_2
0	0	0	0	0	0
1	0	0	0	1	X
2	0	0	1	0	0
3	0	0	1	1	0
4	0	1	0	0	0
5	0	1	0	1	1
6	0	1	1	0	1
7	0	1	1	1	1
8	1	0	0	0	0
9	1	0	0	1	1
10	1	0	1	0	1
11	1	0	1	1	0
12	1	1	0	0	1
13	1	1	0	1	1
14	1	1	1	0	0
15	1	1	1	1	1



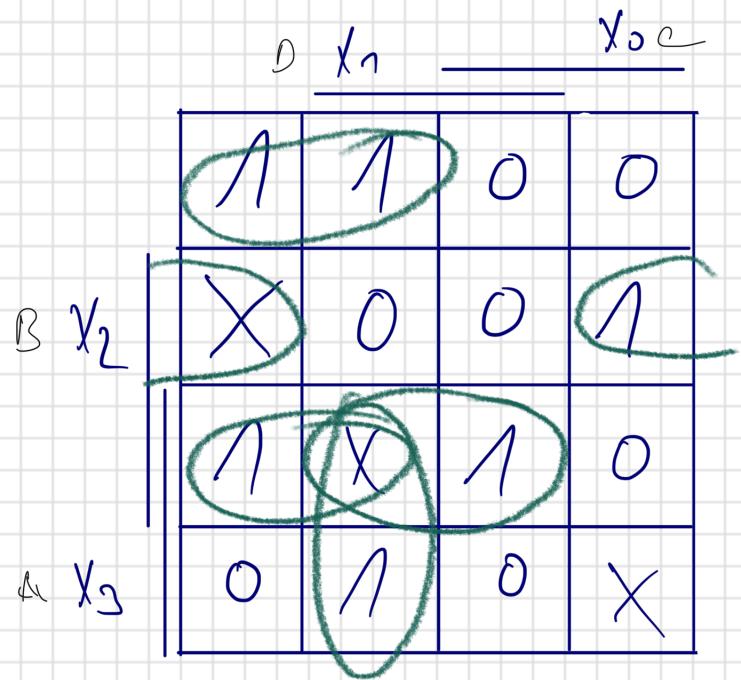
$$\begin{aligned} F_2 &= x_0 \cdot \bar{x}_1 + \bar{x}_0 \cdot x_2 + x_1 \cdot \bar{x}_3 \cdot x_2 \\ &\quad + \bar{x}_1 \cdot x_2 \cdot \bar{x}_3 + \bar{x}_0 \cdot x_1 \cdot \bar{x}_2 \cdot \bar{x}_3 \end{aligned}$$

$$\overline{F_2 = (x_0 \cdot \bar{x}_1) + (\bar{x}_0 \cdot x_2) + (x_1 \cdot \bar{x}_3 \cdot x_2) + (\bar{x}_1 \cdot x_2 \cdot \bar{x}_3) + (\bar{x}_0 \cdot x_1 \cdot \bar{x}_2 \cdot \bar{x}_3)}$$

$$\overline{F_2 = (x_0 \cdot \bar{x}_1) \cdot (\bar{x}_0 \cdot x_2) \cdot (x_1 \cdot \bar{x}_3 \cdot x_2) \cdot (\bar{x}_1 \cdot x_2 \cdot \bar{x}_3) \cdot (\bar{x}_0 \cdot x_1 \cdot \bar{x}_2 \cdot \bar{x}_3)}$$

$$F_4(x_3, x_2, x_1, x_0) = \sum_m (0, 2, 5, 10, 12, 15) + \sum_d (4, 9, 14)$$

	x_3	x_2	x_1	x_0	F_4
0	0	0	0	0	1
1	0	0	0	1	0
2	0	0	1	0	1
3	0	0	1	1	0
4	0	1	0	0	X
5	0	1	0	1	1
6	0	1	1	0	0
7	0	1	1	1	0
8	1	0	0	0	0
9	1	0	0	1	X
10	1	0	1	0	1
11	1	0	1	1	0
12	1	1	0	0	1
13	1	1	0	1	0
14	1	1	1	0	X
15	1	1	1	1	1

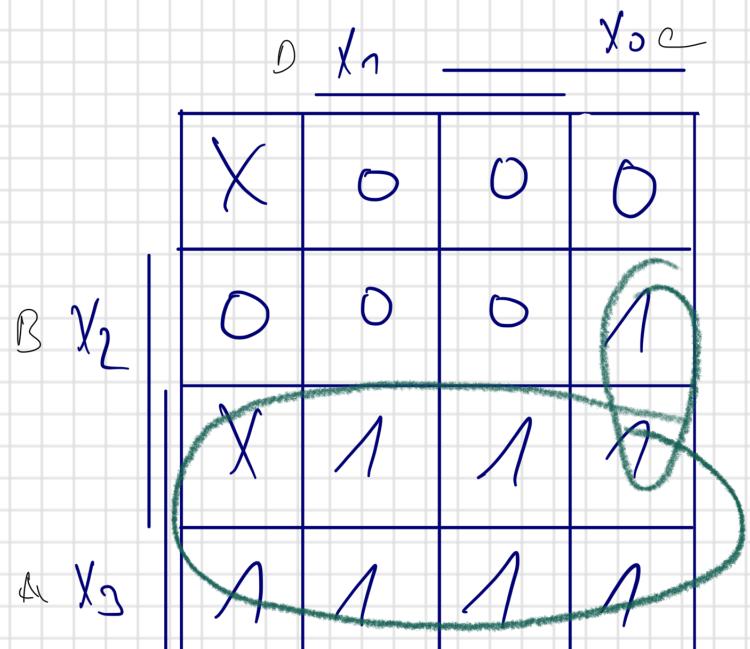


$$\begin{aligned}
 F_4 = & \overline{x_0} \cdot \overline{x_2} \cdot \overline{x_3} + \overline{x_1} \cdot x_2 \cdot \overline{x_3} + \\
 & \overline{x_0} \cdot x_2 \cdot x_3 + x_1 \cdot \overline{x_2} \cdot x_3 + \overline{x_0} \cdot x_1 \cdot x_3
 \end{aligned}$$

$$\begin{aligned}
 F_4 = & (\overline{x_0} \cdot \overline{x_2} \cdot \overline{x_3}) + (\overline{x_1} \cdot x_2 \cdot \overline{x_3}) + (\overline{x_0} \cdot x_2 \cdot x_3) + (x_1 \cdot \overline{x_2} \cdot x_3) + (\overline{x_0} \cdot x_1 \cdot x_3)
 \end{aligned}$$

$$F_5(x_3, x_2, x_1, x_0) = \sum_m (5, 8, 9, 10, m, m_3, m_4, 15) + \sum_d (0, 12)$$

	x_3	x_2	x_1	x_0	F_5
0	0	0	0	0	X
1	0	0	0	1	0
2	0	0	1	0	0
3	0	0	1	1	0
4	0	1	0	0	0
5	0	1	0	1	1
6	0	1	1	0	0
7	0	1	1	1	0
8	1	0	0	0	1
9	1	0	0	1	1
10	1	0	1	0	1
11	1	0	1	1	1
12	1	1	0	0	X
13	1	1	0	1	1
14	1	1	1	0	1
15	1	1	1	1	1



$$F_5 = x_0 \cdot \overline{x_1} \cdot x_2 + x_3$$

$$F_5 = (\overline{x_0} \cdot \overline{x_1} \cdot x_2) + \overline{x_3}$$

$$F_5 = \overline{(\overline{x_0} \cdot \overline{x_1} \cdot x_2)} + \overline{x_3}$$

$$F_0(x_3, x_2, x_1, x_0) = \prod_{M} (1, 3, 5, 6, 5, m) \cdot \prod_{D} (m)$$

	x_3	x_2	x_1	x_0	F_0
0	0	0	0	0	1
1	0	0	0	1	0
2	0	0	1	0	1
3	0	0	1	1	0
4	0	1	0	0	1
5	0	1	0	1	0
6	0	1	1	0	0
7	0	1	1	1	0
8	1	0	0	0	1
9	1	0	0	1	1
10	1	0	1	0	1
11	1	0	1	1	0
12	1	1	0	0	1
13	1	1	0	1	X
14	1	1	1	0	1
15	1	1	1	1	1

D x_1 $x_0 c$

1	1	0	0
1	0	0	0
1	1	1	X
1	1	0	1

B x_2

A x_3

$$F_0 = (\overline{x}_0 + x_3) \cdot (\overline{x}_1 + \overline{x}_2 + x_3)$$

$$\cdot (\overline{x}_0 + \overline{x}_1 + x_2)$$

$$(\overline{x}_0 + x_3) \cdot (\overline{x}_1 + \overline{x}_2 + x_3) \cdot (\overline{x}_0 + \overline{x}_1 + x_2)$$

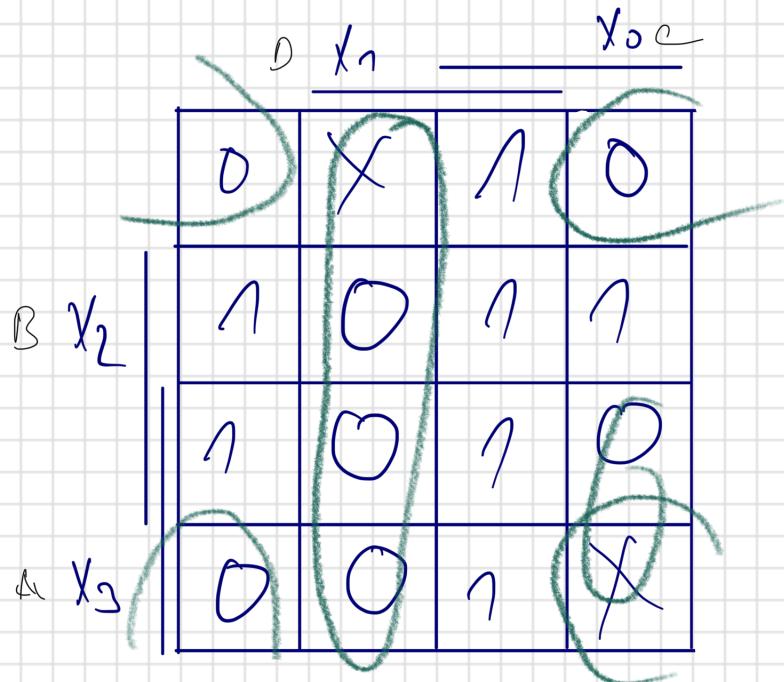
$$(\overline{x}_0 + x_3) \cdot (\overline{x}_1 + \overline{x}_2 + x_3) \cdot (\overline{x}_0 + \overline{x}_1 + x_2)$$

$$(\overline{x}_0 + x_3) \cdot (\overline{x}_1 + \overline{x}_2 + x_3) \cdot (\overline{x}_0 + \overline{x}_1 + x_2)$$

$$(\overline{x}_0 + x_3) \cdot (\overline{x}_1 + \overline{x}_2 + x_3) \cdot (\overline{x}_0 + \overline{x}_1 + x_2)$$

$$F_1(x_3, x_2, x_1, x_0) = \prod M(0, 1, 6, 8, 10, 13, 14) + \sum D(2, 9)$$

	x_3	x_2	x_1	x_0	F_1
0	0	0	0	0	0
1	0	0	0	1	0
2	0	0	1	0	X
3	0	0	1	1	1
4	0	1	0	0	1
5	0	1	0	1	1
6	0	1	1	0	0
7	0	1	1	1	1
8	1	0	0	0	0
9	1	0	0	1	X
10	1	0	1	0	0
11	1	0	1	1	1
12	1	1	0	0	1
13	1	1	0	1	0
14	1	1	1	0	0
15	1	1	1	1	1



$$F_1 = (x_0 + \bar{x}_1) \cdot (x_1 + x_2) \cdot (\bar{x}_0 + x_1 + \bar{x}_3)$$

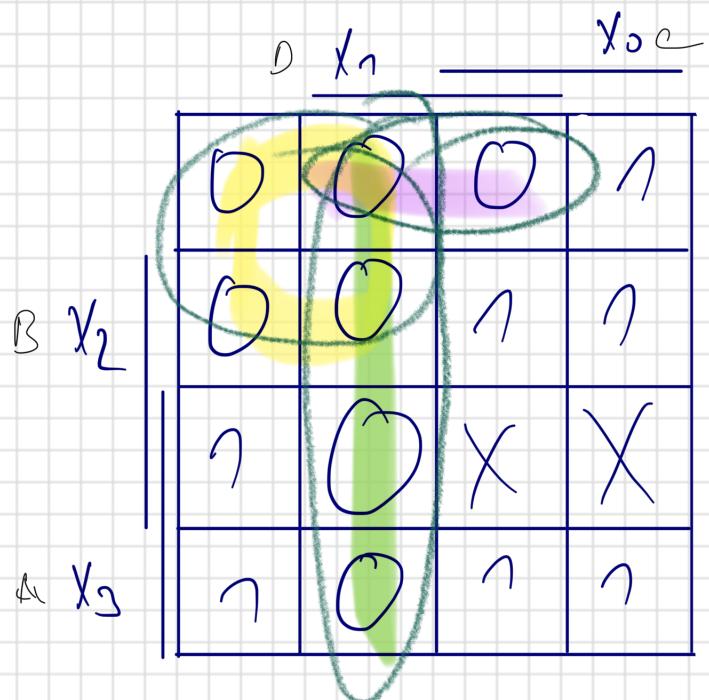
$$F_1 = (\overline{\overline{x_0} + \bar{x}_1}) \cdot (\overline{x_1 + x_2}) \cdot (\overline{\bar{x}_0 + x_1 + \bar{x}_3})$$

$$F_1 = (\overline{\overline{x_0} \cdot \bar{x}_1}) \cdot (\overline{x_1 \cdot x_2}) \cdot (\overline{\bar{x}_0 \cdot x_1 \cdot \bar{x}_3})$$

$$F_1 = (\overline{\overline{x_0} \cdot x_1}) \cdot (\overline{x_1 \cdot x_2}) \cdot (\overline{x_0 \cdot x_1 \cdot x_3})$$

$$F_3(x_3, x_2, x_1, x_0) = \text{TM}(0, 2, 3, 4, 6, 10, 14) \cdot \text{TD}(13, 15)$$

	x_3	x_2	x_1	x_0	F_3
0	0	0	0	0	0
1	0	0	0	1	1
2	0	0	1	0	0
3	0	0	1	1	0
4	0	1	0	0	0
5	0	1	0	1	1
6	0	1	1	0	0
7	0	1	1	1	1
8	1	0	0	0	1
9	1	0	0	1	1
10	1	0	1	0	0
11	1	0	1	1	1
12	1	1	0	0	1
13	1	1	0	1	X
14	1	1	1	0	0
15	1	1	1	1	X



$$F_3 = (x_3 + x_0) \cdot (\bar{x}_1 + x_0) \cdot (x_3 + x_2 + \bar{x}_1)$$

$$F_3 = \overline{(x_3 \cdot x_0)} \cdot \overline{(x_1 \cdot x_0)} \cdot \overline{(x_3 \cdot x_2 \cdot x_1)}$$