M = 20190953

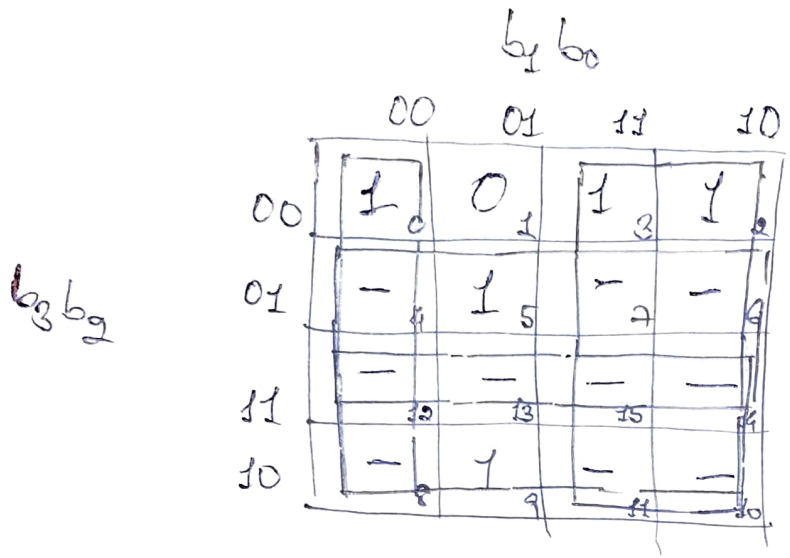
S = {0, 1, 2, 3, 5, 9}

Dec : 0 Bin : 0000
Dec : 1 Bin : 0001
Dec : 2 Bin : 0010
Dec : 3 Bin : 0011
Dec : 5 Bin : 0101
Dec : 9 Bin : 1001

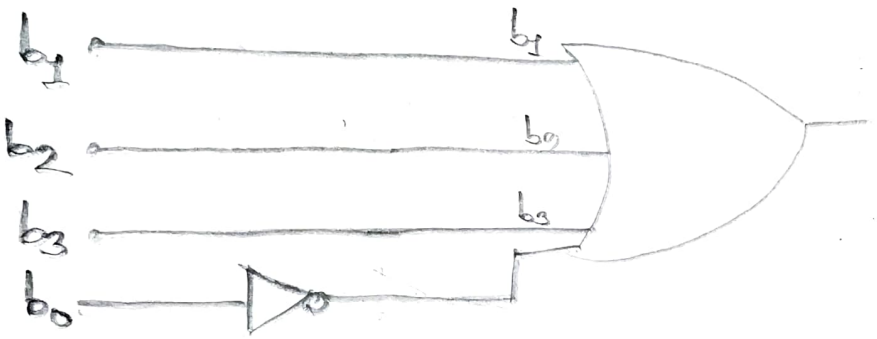
Dec	Bin	A	B	C	D	E	F	G
0	0000	1	1	1	1	1	1	0
1	0001	0	1	1	0	0	0	0
2	0010	1	1	0	1	1	0	1
3	0011	1	1	1	1	0	0	1
5	0101	1	0	1	1	0	1	1
9	1001	1	1	1	1	0	1	1

For A :

	b_3	b_2	b_1	b_0	y
0	0	0	0	0	1
1	0	0	0	1	0
2	0	0	1	0	1
3	0	0	1	1	1
4	0	1	0	0	–
5	0	1	0	1	1
6	0	1	1	0	–
7	0	1	1	1	–
8	1	0	0	0	–
9	1	0	0	1	1
10	1	0	1	0	–
11	1	0	1	1	–
12	1	1	0	0	–
13	1	1	0	1	–
14	1	1	1	0	–
15	1	1	1	1	–



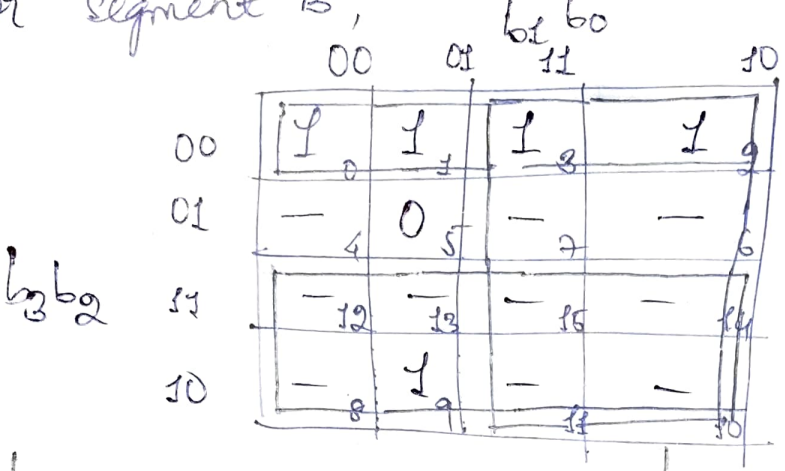
$$b_3 + b_1 + b_2 + \overline{b_1}\,\overline{b_0}$$
$$= b_3 + b_2 + b_1 + \overline{b_1}\,\overline{b_0}$$
$$= b_3 + b_2 + b_1 + \overline{b_0}$$



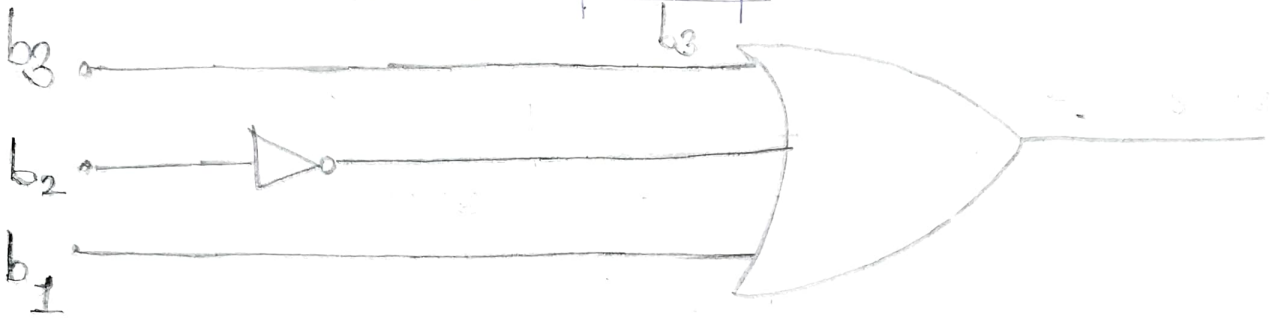
For B_9:
c, D, E, f, G

	b_3	b_2	b_1	b_0	y(B)	y(C)	y(D)	y(E)	y(F)	y(G)
0	0	0	0	0	1	1	1	1	1	0
1	0	0	0	1	1	1	0	0	0	0
2	0	0	1	0	1	0	1	1	0	1
3	0	0	1	1	1	1	1	0	0	1
4	0	1	0	0	–	–	–	–	–	–
5	0	1	0	1	0	1	1	0	1	1
6	0	1	1	0	–	–	–	–	–	–
7	0	1	1	1	–	–	–	–	–	–
8	1	0	0	0	–	–	–	–	–	–
9	1	0	0	1	1	1	1	0	1	1
10	1	0	1	0	–	–	–	–	–	–
11	1	0	1	1	–	–	–	–	–	–
12	1	1	0	0	–	–	–	–	–	–
13	1	1	0	1	–	–	–	–	–	–
14	1	1	1	0	–	–	–	–	–	–
15	1	1	1	1	–	–	–	–	–	–

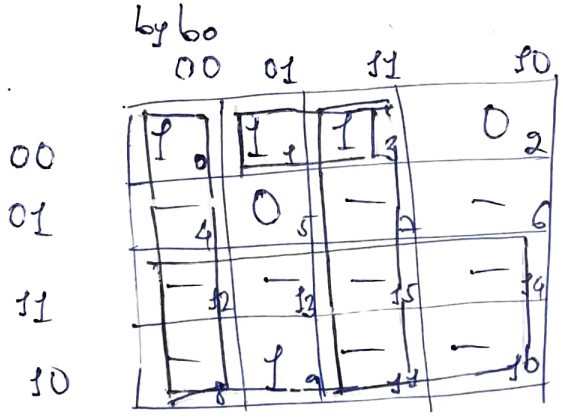
For segment B,



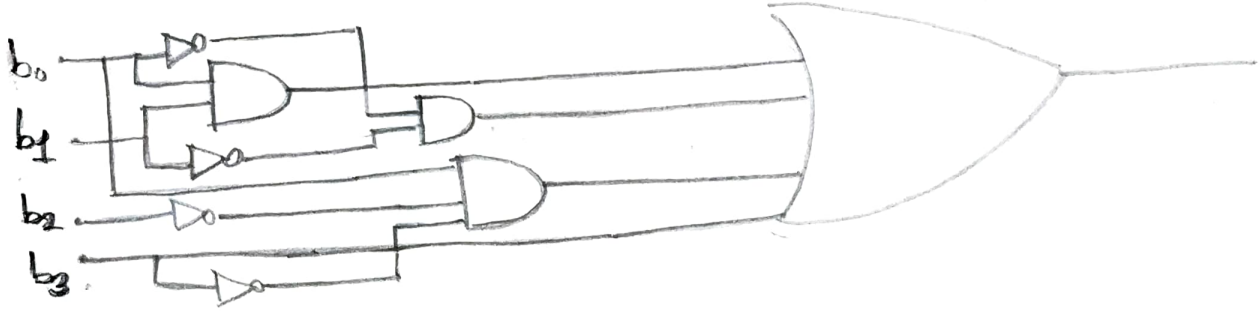
$$\bar{b}_3\bar{b}_2 + \bar{b}_1 + b_3$$
$$= b_3 + \bar{b}_2 + \bar{b}_1$$



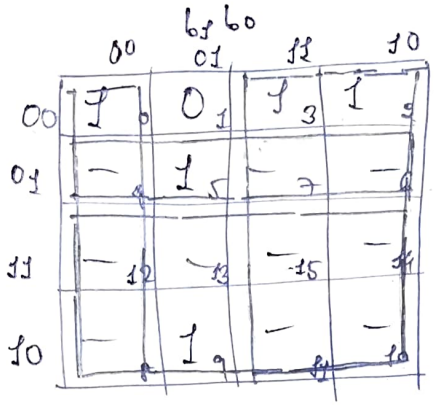
C_9



$$b_3 + \bar{b}_1\bar{b}_0 + b_1 b_0 + \bar{b}_3\bar{b}_2 b_0$$

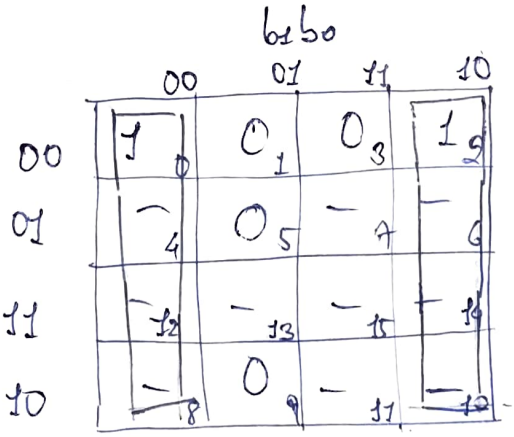


D_1



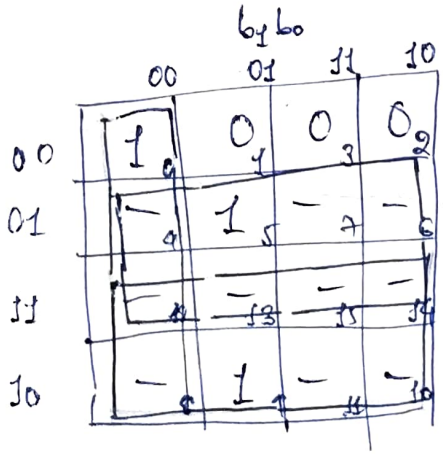
$$b_3 + b_1 + \overline{b_3} b_2 + \overline{b_3} \overline{b_2} b_0 \overline{b_1}$$
$$= b_3 + b_2 + b_1 + b_0$$

E_1

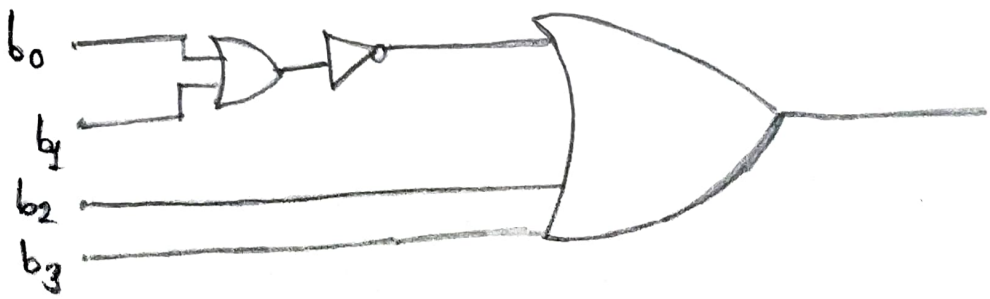


$$\overline{b_1} \overline{b_0} + b_1 \overline{b_0}$$
$$= \overline{b_0}$$

F_1



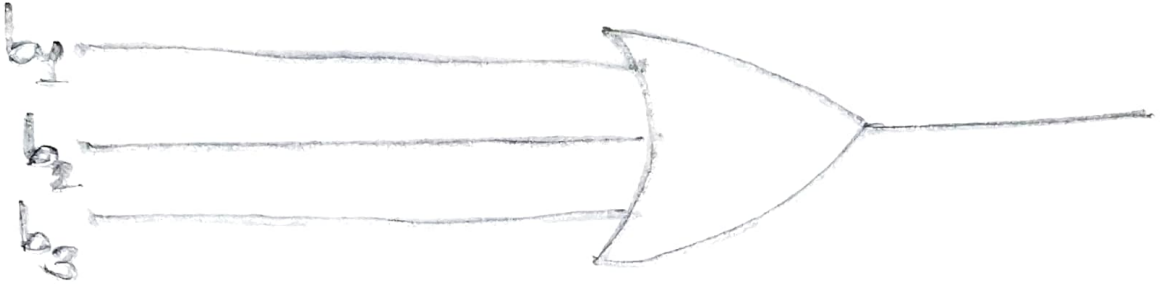
$$\overline{b_1} \overline{b_0} + b_2 + b_3$$



G1

b_3b_2 \ b_1b_0	00	01	11	10
00	0 (0)	0 (1)	1 (3)	1 (2)
01	– (4)	1 (5)	– (7)	– (6)
11	– (12)	– (13)	– (15)	– (14)
10	– (8)	1 (9)	– (11)	– (10)

$b_1 + b_2 + b_3$



DESIGN - 2