

Part 1:

	D_3	D_2	D_1	D_0	E
0	0	0	0	0	0
1	0	0	0	1	0
2	0	0	1	0	0
3	0	0	1	1	1
4	0	1	0	0	1
5	0	1	0	1	1
6	0	1	1	0	1
7	0	1	1	1	1
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	1
13	1	1	0	1	0
14	1	1	1	0	0
15	1	1	1	1	0

Brady

Ex 3
~~www~~
 6600

Decimals

Exc 3

9

0011

Q

1100

$$E(D_3, D_2, D_1, D_0) = \sum_y (3, 4, 5, 6, 7, 8, 9, 10, 11, 12).$$

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

Group 1: 4, 5, 6, 7

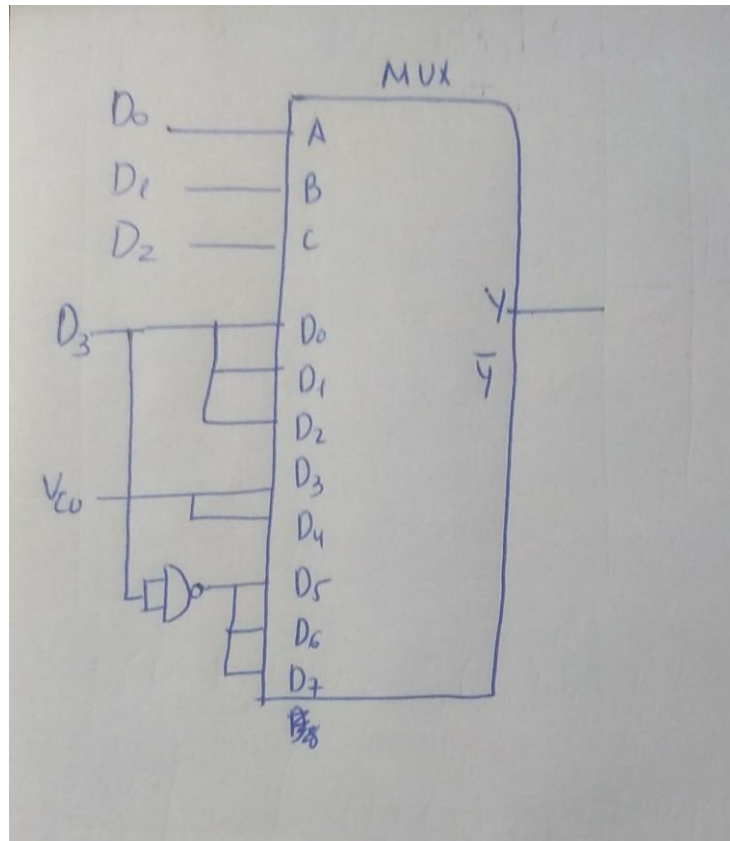
Group 2: 3.7

Группы: 8, 9, 10, 10

Group 4: 4, 12.

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

$D_3 \backslash D_2 D_1 D_0$	000	001	010	011	100	101	110	111
0	0	0	0	1	1	1	1	1
1	1	1	1	1	1	0	0	0
E	D	D	D	1	1	\bar{D}	\bar{D}	\bar{D}



Practica 3 CF

Ejercicio 2

	D ₃	D ₂	D ₁	D ₀	E
0	0	0	0	0	
1	0	0	0	1	
2	0	0	1	0	
3	0	0	1	1	4
4	0	1	0	0	0
5	0	1	0	1	1
6	0	1	1	0	2
7	0	1	1	1	3
8	1	0	0	0	4
9	1	0	0	1	5
10	1	0	1	0	6
11	1	0	1	1	7
12	1	1	0	0	8
13	1	1	0	1	
14	1	1	1	0	
15	1	1	1	1	

ab \ cd	00	01	11	10
00			1	1
01	1	1	1	1
11	1	1	1	1
10	1	1	1	1

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

1 74151 8-NAND

1 74159 DED

2 7400 2NAND

2 7470 4NAND

D ₃	D ₂	D ₁	D ₀	a	b	c	d	e	f	g	BCD Natural	E
0	0	0	0	1	1	1	1	1	1	0	0	4
0	0	0	1	0	1	1	0	0	0	0	1	5
0	0	1	0	1	1	0	1	1	0	1	2	6
0	0	1	1	1	1	1	1	0	0	1	3	7
0	1	0	0	0	1	1	0	0	1	1	4	8
0	1	0	1	1	0	1	1	0	1	1	5	9
0	1	1	0	1	0	1	1	1	1	1	6	10
0	1	1	1	1	1	1	0	0	0	0	7	11
1	0	0	0	1	1	1	1	1	1	1	8	12
1	0	0	1	1	1	1	1	0	1	1	9	3