lab # 3

Ejercicio # 2

a.)

```
  1 0 1 0 1 1 1 1
+       1 0 1 0 1
-----------------
1 1 0 0 0 1 0 0
```

b.)

```
    1 0 1 1 1 1 0 1
+       1 0 1 1 1 1 0
----------------------
1 0 0 0 1 1 0 1 1
```

c.)

```
  1 0 1 1 0 1 0 0
        1 0 1 0
----------------
1 0 1 1 1 1 1 0
```

d.)

```
  1 1 1 0 0 1 0 1
    1 0 0 1 0 0 1
------------------
1 0 0 1 0 1 1 1 0
```

e.)

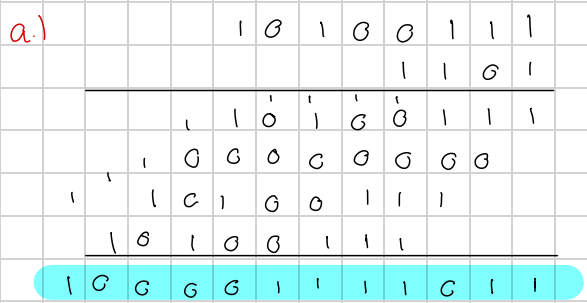
```
  1 0 0 1 0 1 0 0
        1 0 1 0 1
------------------
1 0 1 0 1 0 0 1
```

f.)

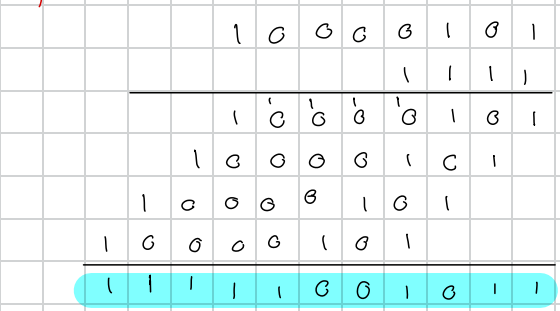
```
  1 0 1 0 1 1 1 1
1 1 1 0 0 0 1 0 1
-----------------
1 0 0 1 1 1 0 1 0 0
```

Ejercicio #4

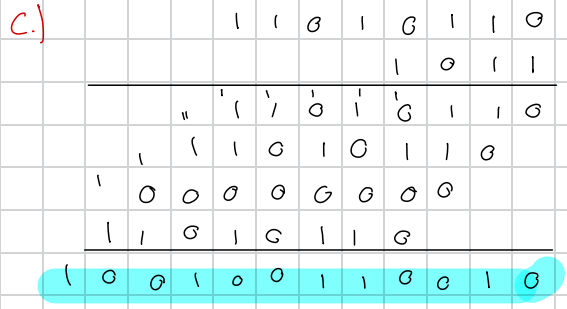
a.)



b.)



c.)



Ejercicio # 8.1

a.)

Signo = 1

entero = 118 ≈ 1 1 1 0 1 1 0

118 / 2 =	59	0
59 / 2 =	29	1
29 / 2 =	14	1
14 / 2 =	7	0
7 / 2 =	3	1
3 / 2 =	1	1
1 / 2 =	0	1

fraccion = 0.546875 ≈ 0.100 11

0.546875 x 2 =	1.09375	1
0.09375 x 2 =	0.1875	0
0.1875 x 2 =	0.375	0
0.375 x 2 =	0.75	0
0.75 x 2 =	1.5	1
0.5 x 2 =	1.0	1

1 1 1 0 1 1 0 . 1 0 0 1 1

1.1110110011×2^6

$6 + 127 = 133_{10} = 10000101_2$

1. 11011001100000000000 = Mantisa

Signo	Exponente	
1	10000101	11011001100000000000

b.) Signo = 0

Entero = 101 ≈ 1100101

101 / 2	= 50	1
50 / 2	= 25	0
25 / 2	= 12	1
12 / 2	= 6	0
6 / 2	= 3	0
3 / 2	= 1	1
1 / 2	= 0	1

fracion = 0.533203125 ≈ 0.10001101

0.533203125 x 2	= 1.066406250	1
0.066406250 x 2	= 0.132812500	0
0.132812500 x 2	= 0.265625000	0
0.265625000 x 2	= 0.531250000	0
0.531250000 x 2	= 1.062500000	1
0.062500000 x 2	= 0.125000000	0
0.125000000 x 2	= 0.250000000	0
0.250000000 x 2	= 0.500000000	0
0.500000000 x 2	= 1.000000000	1

1100101.10001101 ≈ 1.10001101 x 2^6

6 + 127 = 133 = 10000101

Mantisa = 10001101000010000000000

Signo	Exponente	
0	10000101	10001101000010000000000