Ex 1

n = 1110 1111 8 bits

n+1 1110 1111
          1

n+1 1111 0000

n+2 1111 0001

n+3 1111 0010

Ex 2 n 1be

n+1	1bf
n+2	1c0
n+3	1c1

Ex 3

8 4 2 1
1011 -> $(11)_{10}$

1111 1111 1111 1111 $= 2^{16} - 1$

Ex 4

1ff = 1×256 + 15×16 + 15

256 16 0

256
240
15

511

Ex 6

"S" = \$ 53 = (0101 0011)$_2$

"s" = \$ 73 = (0111 0011)$_2$

Ex 7

10,375 -> (1010) : 10

0,375 × 2 = 0,750

0,750 × 2 = 1,50

0,5 × 2 = 1,—

(10,375) = $(1010,011)_2$

16,250 -> (1 0000) : 16.

0,250 × 2 = 0,5

0,5 × 2 = 1

(16,250) = (1 0000, 01)

9 8 62 64 62

32 16 4 2 1

Ex 8

75 | 2
1 | 37 | 2
1 | 18 | 2
0 | 9 | 2
1 | 4 | 2
1 | 2 | 2
0 | 1 | 2
1 | x

EXS

128	64	32	16	8	4	2	1
0	0	1	0	1	1	1	1

47
-32

15
-8

7
-4

3

$(0010\ 1111)_2$

47 | 2
~~4~~ 23 | 2
~~4~~ 11 | 2
1 5 | 2
1 2 | 2
1 0 | 2
1 | 2
1 | x

0010 11~~4~~~~4~~

75 | 2
1 | 37 | 2
1 | 18 | 2
0 | 9 | 2
1 | 4 | 2
0 | 2 | 2
0 | 1 | 2
1 | x

64 32 16 8 4 2 1
1 0 0 1 0 1 1

72 74 75

60 | 2
0 | 30 | 2
0 | 15 | 2
1 | 7 | 2
1 | 3 | 2
1 | 1 | 2
1

56 — 60
48

32 16 8 4
(0011 1100)

C1 1100 0011
+1 1
1100 0100

(+75) = (0100 1011)$_{C2}$

\+ −60 1100 0100

1|0000 1111 → (+15)

8 4 2 1
12
14
15

17 = 1 0001 4

17 = 1,0001 × 2^{100}

exposant	mantisse
4	0001

4 + 127 = 131 => 128 + 2 + 1

1000 0011

0 1000 0011 0001 0 ——— 0

4 13