

④ Pasar a binario.

① 4342

$$\begin{array}{r}
 4342 \div 2 = 2171 \text{ R } 0 \\
 2171 \div 2 = 1085 \text{ R } 1 \\
 1085 \div 2 = 542 \text{ R } 1 \\
 542 \div 2 = 271 \text{ R } 0 \\
 271 \div 2 = 135 \text{ R } 1 \\
 135 \div 2 = 67 \text{ R } 1 \\
 67 \div 2 = 33 \text{ R } 1 \\
 33 \div 2 = 16 \text{ R } 1 \\
 16 \div 2 = 8 \text{ R } 0 \\
 8 \div 2 = 4 \text{ R } 0 \\
 4 \div 2 = 2 \text{ R } 0 \\
 2 \div 2 = 1 \text{ R } 0 \\
 1 \div 2 = 0 \text{ R } 1
 \end{array}$$

4342₁₀ = 1000011110110₂

② 2047

$$\begin{array}{r}
 2047 \div 2 = 1023 \text{ R } 1 \\
 1023 \div 2 = 511 \text{ R } 1 \\
 511 \div 2 = 255 \text{ R } 1 \\
 255 \div 2 = 127 \text{ R } 1 \\
 127 \div 2 = 63 \text{ R } 1 \\
 63 \div 2 = 31 \text{ R } 1 \\
 31 \div 2 = 15 \text{ R } 1 \\
 15 \div 2 = 7 \text{ R } 1 \\
 7 \div 2 = 3 \text{ R } 1 \\
 3 \div 2 = 1 \text{ R } 1 \\
 1 \div 2 = 0 \text{ R } 1
 \end{array}$$

2047₁₀ = 1111111111111₂

③ 10F9h

10F9h → 10F9 → FH = 10F9

10F9h = 00011011111001₂

Dh = 10111111₂

9h = 10011111₂

10F9h = 00011011111001₂

10F9h = 00011011111001₂

① 94EBD_h

$$9h = 9d \begin{array}{r} 12 \\ 1 \quad 12 \\ 10 \quad 2 \quad 12 \\ 10 \quad 1 \quad 12 \\ 1 \quad 0 \end{array}$$

9d = 9h = 10016

$$4h = 4d \begin{array}{r} 12 \\ 0 \quad 12 \\ 6 \quad 2 \quad 12 \\ 1 \quad 1 \quad 12 \\ 0 \end{array}$$

4h = 4d = 01006

$$Eh = 14d \begin{array}{r} 12 \\ 7 \quad 12 \\ 1 \quad 3 \quad 12 \\ 1 \quad 1 \quad 12 \\ 1 \quad 1 \quad 0 \end{array}$$

Eh = 14d = 11106

$$Bh = 11d \begin{array}{r} 12 \\ 5 \quad 12 \\ 1 \quad 2 \quad 12 \\ 1 \quad 1 \quad 12 \\ 0 \end{array}$$

Bh = 11d = 10116

$$Dh = 13d \begin{array}{r} 12 \\ 6 \quad 12 \\ 1 \quad 3 \quad 12 \\ 0 \quad 1 \quad 12 \\ 1 \quad 0 \end{array}$$

Dh = 13d = 11016

94EBD_h = 1001 0100 1110 1011 1101

② ~~①~~ Pasar a decimal

① $FCA71_h = \sum_{i=0}^n d_i \cdot b^i$

Pos 4 Pos 3 Pos 2 Pos 1 Pos 0

~~suma del peso de los digitos~~

~~suma del valor de los digitos~~

~~Peso . digito~~

~~base posición~~

$$FCA71_h = 15 \cdot 16^4 + 12 \cdot 16^3 + 10 \cdot 16^2 + 7 \cdot 16^1 + 1 \cdot 16^0$$

$$= 923040 + 49152 + 2560 + 112 + 1$$

FCA71_h = 1034865_d

② $777_h = 7 \cdot 16^2 + 7 \cdot 16^1 + 7 \cdot 16^0$

777_h = 1911_d

③ $1010111011_b = 1 \cdot 2^0 + 1 \cdot 2^1 + 0 \cdot 2^2 + 1 \cdot 2^3 + 1 \cdot 2^4 + 1 \cdot 2^5 + 1 \cdot 2^6 + 0 \cdot 2^7 + 1 \cdot 2^8 + 0 \cdot 2^9$

base = 2

1010111011 = 1403_d

④ $0100110016_b = 1 \cdot 16^0 + 0 \cdot 16^1 + 0 \cdot 16^2 + 1 \cdot 16^3 + 1 \cdot 16^4 + 0 \cdot 16^5 + 0 \cdot 16^6 + 1 \cdot 16^7 + 0 \cdot 16^8$

0100110016 = 153_d

3. PASAR A Hexadecimal.

$891012d \div 16 = 55688 \text{ r } 4$
 $55688 \div 16 = 3480 \text{ r } 8$
 $3480 \div 16 = 217 \text{ r } 8$
 $217 \div 16 = 13 \text{ r } 9$
 $13 \div 16 = 0 \text{ r } 13$
 $4h, 8h, 8h, 9h, D h$
 $891012d = D9884h$

$110111d \div 16 = 6881d \text{ r } 5$
 $6881d \div 16 = 430 \text{ r } 1$
 $430 \div 16 = 26 \text{ r } 14$
 $26 \div 16 = 1 \text{ r } 10$
 $1 \div 16 = 0 \text{ r } 1$
 $5h, 1h, E h, A h, 1h$
 $110111d = 1AE1Fh$

$110111d = 1AE1Fh$

$1010111011011011b$
 $1 \cdot 2^0 + 1 \cdot 2^1 + 1 \cdot 2^2 + 0 \cdot 2^3 = 7d = 7h$
 $1 \cdot 2^0 + 1 \cdot 2^1 + 0 \cdot 2^2 + 1 \cdot 2^3 = 11d = Bh$
 $1 \cdot 2^0 + 1 \cdot 2^1 + 0 \cdot 2^2 + 1 \cdot 2^3 = 11d = Bh$
 $0 \cdot 2^0 + 1 \cdot 2^1 = 2d = 2h$
 $1010111011011011b = 2BB7h$

$11110b$
 $0 \cdot 2^0 + 1 \cdot 2^1 + 1 \cdot 2^2 + 1 \cdot 2^3 = 14d = Eh$
 $1 \cdot 2^0 = 1d = 1h$
 $11110b = 1Eh$