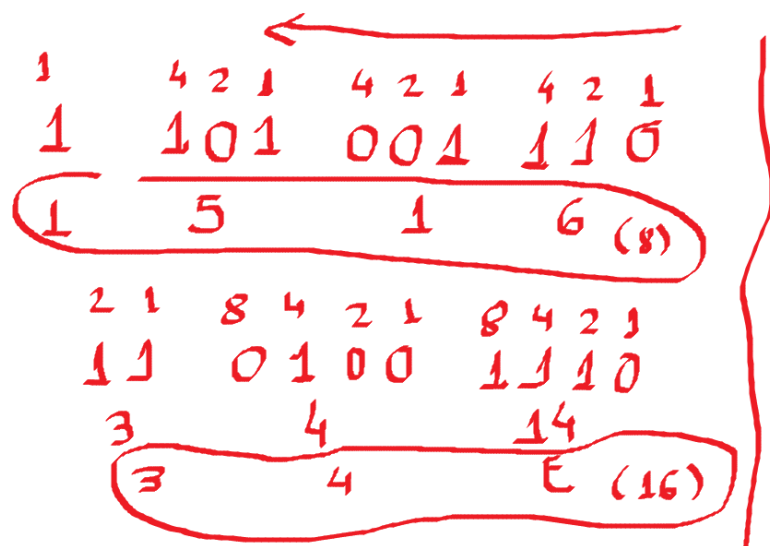


CORREÇÃO DO EXERCÍCIO

A)



$\begin{matrix} 512 & 256 & 128 & 64 & 32 & 16 & 8 & 4 & 2 & 1 \\ 1101001110 \\ \hline 846 & (10) \end{matrix}$

1101001111

$\begin{matrix} 1 & 421 & 421 & 421 \\ 1 & 101 & 001 & 111 \\ 1 & 5 & 1 & 7(8) \end{matrix}$

$\begin{matrix} 21 & 8421 & 8421 \\ 11 & 0100 & 1111 \\ 3 & 4 & 15 \\ 3 & 4 & F(16) \end{matrix}$

$\begin{matrix} 512 & 256 & 128 & 64 & 32 & 16 & 8 & 4 & 2 & 1 \\ 1 & 1 & 0 & 1 & 0 & 0 & 1 & 1 & 1 & 1 \\ 847(10) \end{matrix}$

765(8)

$\begin{matrix} 7 & 6 & 5 \\ 421 & 421 & 421 \\ 111 & 110 & 101 \end{matrix}$

111110101(2)

8421	8421	8421
0001	1111	0101
1	15	5
1	F	5(16)

256 128 64 32 16 8 4 2 1
 1 1 1 1 1 0 1 0 1
 501(10)
 675(8)

6	7	5
421	421	421
110	111	101

110111101(2)

8421	8421	8421
0001	1011	1101
1	11	13
1	B	D(16)

256 128 64 32 16 8 4 2 1
 1 1 0 1 1 1 1 0 1
 512-1 = 511-66
 445(10)

123(10)

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

421	421	421
001	111	011
1	7	3(8)

8421	8421
0111	1011
7	11
7	B(16)

122(10)

64 32 16 8 4 2 1

1 1 1 1 0 1 0(2)

421	421	421
001	111	010
1	7	2(8)

8421	8421
0111	1010
7	10
7	A(16)

BCD(16)

B=11 C=12 D=13

8421	8421	8421
1011	1100	1101

101111001101(2)

421	421	421	421
101	111	001	101
5	7	1	5(8)

2048	1024	512	256	128	64	32	16	8	4	2	1
1	0	1	1	1	1	0	0	1	1	0	1

=2048+512+256+128+64+8+4+1
3021(10)

AF0(16)

A=10 F=15 0

8421	8421	8421
1010	1111	0000

101011110000(2)

421	421	421	421
101	011	110	000
5	3	6	0(8)

2048	1024	512	256	128	64	32	16	8	4	2	1
1	0	1	0	1	1	1	1	0	0	0	0

=2048+512+128+64+32+16
2800(10)

OPERAÇÕES EM OUTRAS BASES

BINÁRIO

SOMAR
SUBTRAIR
DIVIDIR
MULTIPLICAR

OCTAL

SOMA
SUBTRAÇÃO

HEXADECIMAL

SOMA
SUBTRAÇÃO

BINÁRIO

SOMA

$$\begin{array}{r}
 \overset{1}{1} \quad \overset{1}{1} \quad \overset{1}{0} \quad 1 \\
 1 \quad 1 \quad 0 \quad 1 \\
 1 \quad 0 \quad 1 \quad 1 \\
 + \quad 1 \quad 0 \quad 1 \quad 0 \\
 \hline
 10 \quad 0 \quad 0 \quad 1 \quad 0
 \end{array}$$

$$\begin{array}{r}
 \overset{10}{1} \quad \overset{10}{1} \quad \overset{1}{1} \quad 1 \\
 1 \quad 1 \quad 0 \quad 1 \\
 1 \quad 1 \quad 1 \quad 1 \\
 + \quad 1 \quad 0 \quad 1 \quad 0 \\
 \hline
 110 \quad 1 \quad 0 \quad 1
 \end{array}$$

$$\begin{array}{r}
 1 \quad 0 \quad 1 \quad 1 \quad 1 \\
 - \quad 1 \quad 0 \quad 1 \quad 0 \quad 1 \\
 \hline
 0 \quad 0 \quad 0 \quad 1 \quad 0
 \end{array}$$

SUBTRAÇÃO

$$\begin{array}{r}
 \begin{array}{ccccc}
 & 1 & 1 & 10 & 10 \\
 0 & \cancel{10} & \cancel{10} & \cancel{0} & \cancel{10} \\
 1 & \cancel{0} & \cancel{0} & \cancel{1} & \cancel{0} \\
 - & 1 & 1 & 1 & 1 \\
 \hline
 0 & 0 & 0 & 1 & 1
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{ccccc}
 & 1 & 10 & 1 & 10 \\
 0 & \cancel{10} & \cancel{0} & \cancel{10} & \cancel{10} \\
 1 & \cancel{0} & \cancel{1} & \cancel{0} & \cancel{0} \\
 - & 1 & 1 & 0 & 1 \\
 \hline
 0 & 0 & 1 & 1 & 1
 \end{array}
 \end{array}$$

MULTIPLICAÇÃO

$$\begin{array}{r}
 \begin{array}{cccc}
 1 & 1 & 1 & 0 \\
 \times & 1 & 0 \\
 \hline
 0 & 0 & 0 & 0 \\
 + 1 & 1 & 1 & 0 \\
 \hline
 1 & 1 & 1 & 0 & 0
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{cccc}
 1 & 1 & 1 & 0 \\
 \times & 1 & 0 & 1 \\
 \hline
 1 & 1 & 1 & 1 & 0 \\
 + 1 & 0 & 0 & 0 & 0 \\
 + 1 & 1 & 1 & 0 & \\
 \hline
 1 & 0 & 0 & 0 & 1 & 1 & 0
 \end{array}
 \end{array}$$

DIVISÃO

$$\begin{array}{r}
 \begin{array}{ccccccc}
 & & \downarrow & \downarrow & \downarrow & & \\
 1 & 0 & 1 & 0 & 1 & & \\
 - & 1 & 0 & 0 & & & \\
 \hline
 0 & 0 & 1 & 0 & 1 & & \\
 & & - & 1 & 0 & 0 & \\
 & & \hline
 & & 0 & 0 & 1 & &
 \end{array}
 & | &
 \begin{array}{ccc}
 1 & 0 & 0 \\
 \hline
 1 & 0 & 1 \\
 \uparrow & \uparrow & \uparrow
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{ccccccc}
 1 & 0 & 1 & 0 & 1 & 1 & 1 \\
 - & 1 & 1 & & & & \\
 \hline
 0 & 1 & 0 & 0 & & & \\
 & - & 1 & 1 & & & \\
 & \hline
 & 0 & 0 & 1 & 1 & & \\
 & & - & 1 & 1 & & \\
 & & \hline
 & & 0 & 0 & 1 & 1 & \\
 & & & - & 1 & 1 & \\
 & & & \hline
 & & & 0 & 0 & &
 \end{array}
 & | &
 \begin{array}{cc}
 1 & 1 \\
 \hline
 1 & 1 & 1 & 0 & 1
 \end{array}
 \end{array}$$

OCTAL SOMA

$$\begin{array}{r}
 \begin{array}{ccc}
 1 & & \\
 7 & 4 & 5 \\
 + & 6 & 7 & 2 \\
 & 7 & 2 & 0 \\
 \hline
 & 21-8 & 13-8 & 7 \\
 & 13-8 & 5 & \\
 & \hline
 2 & 5 & &
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{cccc}
 2 & 2 & 2 & \\
 7 & 7 & 7 & 7 \\
 & 7 & 7 & 7 \\
 + & 7 & 7 & 7 \\
 \hline
 & 23-8 & 23-8 & 23-8 & 21-8 \\
 & 15-8 & 15-8 & 15-8 & 13-8 \\
 & \hline
 2 & 7 & 7 & 7 & 5
 \end{array}
 \end{array}$$

SUBTRAÇÃO

$$\begin{array}{r}
 \begin{array}{cccc}
 \overset{6}{\cancel{7}} & \overset{7}{\cancel{8}} & \overset{8+4}{\cancel{4}} & \overset{8+2}{\cancel{2}} \\
 \cancel{7} & \cancel{0} & \cancel{5} & \cancel{2}
 \end{array} \\
 - \quad 1 \quad 5 \quad 6 \quad 7 \\
 \hline
 5 \quad 2 \quad 6 \quad 3
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{ccccc}
 \overset{6}{\cancel{7}} & \overset{8+5}{\cancel{5}} & \overset{7}{\cancel{8}} & \overset{7}{\cancel{8}} & \overset{8+2}{\cancel{2}} \\
 \cancel{7} & \cancel{6} & \cancel{0} & \cancel{0} & \cancel{2}
 \end{array} \\
 - \quad 2 \quad 7 \quad 5 \quad 2 \quad 7 \\
 \hline
 4 \quad 6 \quad 2 \quad 5 \quad 3
 \end{array}$$

HEXADECIMAL

SOMA

$$\begin{array}{r}
 \begin{array}{cccc}
 \overset{15}{F} & \overset{1}{A} & \overset{1}{C} & \overset{10}{A} \\
 \overset{15}{F} & \overset{10}{0} & \overset{12}{C} & \overset{10}{A}
 \end{array} \\
 + \quad \begin{array}{cccc}
 \overset{15}{F} & \overset{10}{0} & \overset{12}{C} & \overset{10}{A}
 \end{array} \\
 \hline
 \begin{array}{cccc}
 \underline{30-16} & 14 & \underline{25-16} & \underline{20-16} \\
 14 & B & 9 & 4
 \end{array} \\
 1 \quad E
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{cccc}
 \overset{2}{\cancel{F}} & \overset{2}{\cancel{F}} & \overset{1}{\cancel{F}} & \overset{15}{F} \\
 \overset{10}{A} & \overset{12}{C} & \overset{11}{B} & 2
 \end{array} \\
 + \quad \begin{array}{cccc}
 \overset{10}{A} & \overset{12}{C} & \overset{11}{B} & 2
 \end{array} \\
 \hline
 \begin{array}{cccc}
 \underline{34-16} & \underline{38-16} & \underline{41-16} & \underline{28-16} \\
 \underline{18-16} & \underline{22-16} & \underline{25-16} & 12 \\
 2 & 6 & 9 & C
 \end{array}
 \end{array}$$

SUBTRAÇÃO

$$\begin{array}{r}
 \begin{array}{cccc}
 14 & 16+1 & 15 & \\
 F=15 & 2 & 0 & 7 \\
 16+1 & & &
 \end{array} \\
 - \quad \begin{array}{cccc}
 1 & F=15 & C=12 & 6 \\
 \hline
 13 & 2 & 3 & 11 \\
 D & & & B
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{cccc}
 9 & 16+11 & 15+10 & \\
 A=10 & C=11 & B=10 & 16+9 \\
 10 & & & 9
 \end{array} \\
 - \quad \begin{array}{cccc}
 7 & F=15 & C=12 & E=14 \\
 \hline
 2 & 12 & 14 & 11 \\
 & C & E & B
 \end{array}
 \end{array}$$