

IP - Internet Protocol

0-255 .0-255 .0-255 .0-255
|1 octeto|2 octeto| |3 octeto||4 octeto|

00000000 - 11111111
0 - 255

0	...	0
1	20	1
2	21	10
3	...	11
4	...	100
5	...	101
6	...	110
7	99	111
8	100	1000
9	101	
10	102	
12	...	
13	...	
14	...	

Binário para decimal:

10011101

$2(\text{elevado a } 7) + 2(\text{elevado a } 6) + 2(\text{elevado a } 5) + 2(\text{elevado a } 4) + 2^3 + 2^2 + 2^1 + 2(\text{elevado a } 0)$
 $(2(\text{elevado a } 0) * 1) + (2^1 * 0) + (2^2 * 1) + (2^3 * 1) + (2(\text{elevado a } 4) * 1) + (2(\text{elevado a } 5) * 0) + (2(\text{elevado a } 6) * 0) + (2(\text{elevado a } 7) * 1)$

$1+4+8+16+128 = 157$

10010

$2(\text{elevado a } 4) + 2^3 + 2^2 + 2^1 + 2(\text{elevado a } 0)$
 $2+16 = 18$

d) $\begin{array}{r} 110 \\ 222 \end{array}$

$$(2^0 \cdot 0) + (2^1 \cdot 1) + (2^2 \cdot 1) =$$
$$0 + 2 + 4 = 6$$

E) $\begin{array}{r} 11010001 \\ 2^7 2^6 2^5 2^4 2^3 2^2 2^1 2^0 \end{array}$

$$(2^0 \cdot 1) + 0 + 0 + 0 + (2^4 \cdot 1) + 0 + (2^6 \cdot 1) + (2^7 \cdot 1) =$$
$$1 + 16 + 64 + 128 = 209$$

• Cada elemento da fila

* Propriedade da soma de determinantes: sejam A, B e C matrizes quadradas de mesma ordem que obedecem às seguintes condições:

- Todos os elementos das matrizes A, B e C são iguais, exceto os elementos

a) 1001110
 $2^0 2^1 2^2 2^3 2^4 2^5 2^6$

$$(2^0 \cdot 0) + (2^1 \cdot 1) + (2^2 \cdot 1) + (2^3 \cdot 1) + (2^4 \cdot 0) + (2^5 \cdot 0) + (2^6 \cdot 0)$$

$$0 + 2 + 4 + 8 + 0 + 0 + 0 = 14$$

b) 11110000
 $2^0 2^1 2^2 2^3 2^4 2^5 2^6 2^7$

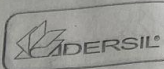
$$(2^0 \cdot 0) + (2^1 \cdot 0) + (2^2 \cdot 0) + (2^3 \cdot 0) + (2^4 \cdot 1) + (2^5 \cdot 1) + (2^6 \cdot 1) + (2^7 \cdot 1)$$

$$0 + 0 + 0 + 0 + 0 + 16 + 32 + 64 + 128 = 240$$

c) 11000000
 $2^0 2^1 2^2 2^3 2^4 2^5 2^6 2^7$

$$(2^0 \cdot 0) + (2^1 \cdot 0) + (2^2 \cdot 0) + (2^3 \cdot 0) + (2^4 \cdot 0) + (2^5 \cdot 0) + (2^6 \cdot 1) + (2^7 \cdot 1)$$

$$0 + 0 + 0 + 0 + 0 + 0 + 64 + 128 = 192$$



Decimal para binário

42

42/2= 0

$$21/2 = 1$$

$$10/2 = 0$$

$$5/2 = 1$$

$$2/2 = 0$$

$$2203/2 = 1$$

$$101/2 = 1$$

$$50/2 = 0$$

$$25/2 = 1$$

$$12/2 = 0$$

$$6/2 = 0$$

$$3/2 = 1$$

11001011