Dado un conjunto de datos, estos pueden ser:

1, 2, 3, 3, 4

TUPLAS

(1, 2, 3, 3, 4)

+ 8 (apendizar)

(1, 2, 3, 3, 4, 8)

Modificar el 1 x 8

(8, 2, 3, 3, 4)

LISTAS

[1, 2, 3, 3, 4]

+ 8 (apendizar)

[1, 2, 3, 3, 4, 8]

Modificar el 1 x 8

[8, 2, 3, 3, 4]

NUMPY ARRAY

array([1, 2, 3, 3, 4])

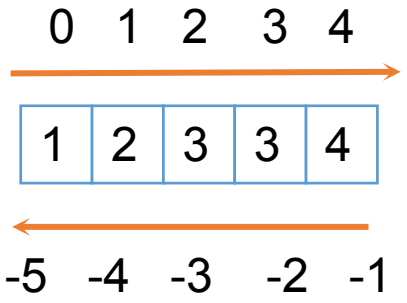
+ 8 (apendizar)

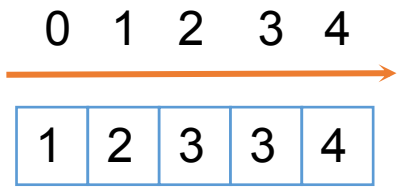
array([1, 2, 3, 3, 4, 8])

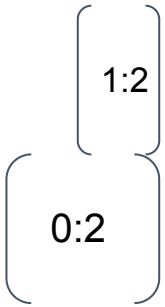
Modificar el 1 x 8

array([8, 2, 3, 3, 4])

Posiciones que ocupan:




0 1 2 3 4
1 2 3 3 4


1:2
0:2

True = 1 False = 0

AND (&)

True and True = True
False and True = False
True and False = False
False and False = False

1 and 1 = 1
0 and 1 = 0
1 and 0 = 0
0 and 0 = 0

OR (|)

True or True = True
False or True = True
True or False = True
False or False = False

1 or 1 = 1
0 or 1 = 1
1 or 0 = 1
0 or 0 = 0

XOR (^)

True ^ True = False
False ^ True = True
True ^ False = True
False ^False = False

1 ^ 1 = 0
0 ^ 1 = 1
1 ^ 0 = 1
0 ^ 0 = 0

Bitwise

0 —> 0000
1 —> 0001
2 —> 0010
3 —> 0011
4 —> 0100
5 —> 0101
6 —> 0110
7 —> 0111
8 —> 1000
9 —> 1001
10 —>1010
11 —>1011

Bitwise right shift

b = a >> n a= 2, n = 1 **a / 2^n**

a = 0010
b = 0001 = 1

Bitwise left shift

b = a << 1 a =2 **a * 2^n**

a= 0010
b = 0100 =4

	Minúscula	Mayúscula
a	97	65
b	98	66
c	99	67
d	100	
e	101	
f	102	
g	103	
h ….		
y		
j		
…..		
z	122	90

0	48	espacio	32
1	49	!	33
2	50	“	34
3	51	#	35
4	.	$	36
5	.	%	37
6		&	38
7		*	42
8			
9	57		