@ 2+3 a type of container that store same type

gnithalization!

$$int ann[5] = \{10, 20\}$$

It will bet o pit you won't give valves. according the initialization

@ if you don't give amy value there will be gambage values will be stoned-

I to tropped souler - Illing them

3 stanting on Base Address -> 104

in a pe array it will give segmentation fault on it will show gambage num nesult that in some compiler it will give list Index out of range (psython).

ann[i] -> Values Present at [Base Addn.]

f sizexi)

@ (annti) = i [ann]. @ > dout values Present at Addrs.

First Algorithm solving

Linear Search

on linear search you will go one by one and check if exists. If exists the frue if not the false

Mill Committee of the many

Dou need to initialize the ans-)
INT_MAX.

Pange $-2^{31} \rightarrow 2^{31}-1$ INT_MIN INT.MAX

2 pointers technique!

input > 10 20 30 40 50 60

output -> 10 60 20 50 30 90

cout 22 i if j zin

cout 22 i

- O swap (swap two number) $(a \rightarrow 5)$ $(b \rightarrow 9)$
- @ Revense armay (Revense an annay)
- (Annay is passed by reference not value.

XOR Openator!

Openation that compartes two values bit by bit.

off represented by the carret symbol (1)

How XOP Work's!

(one is 0, one is 1), the result is p1.



@ 97 the corrnesponding hits are different Same - (both o or both 1), the result is 0.

XOP in Different Data types! a france out - of Congression.

@ Bobl (Tove is 2 and false is 0)

D Lists Capplied element by element)

Bytes Object.

Why XOR is useful

@ # 9f can toggle (Aip) bits! it you xop any bit with 1, it flips (0-)2 on 2->0)

@ 3+3 used in cryptography for encryption

@ 9+ is used for enron checking and data Validation.

Two XOR Openations with the same value cancel out each other out.

Swapping.

- extra memory issue
- Tuple unpacking is the most efficient method for swapping two variable.

Reversing an Anay!

Approaches!

- @ existing revenue method
 - W using list sliving
 - During for loop
- Avoid using list comprehension on loops it

- Easy on the House from Lange