### Array in C

Array: - Collection of element of
the same type that reflect by
common name

-) Occupie continuous memory

- derived du testype

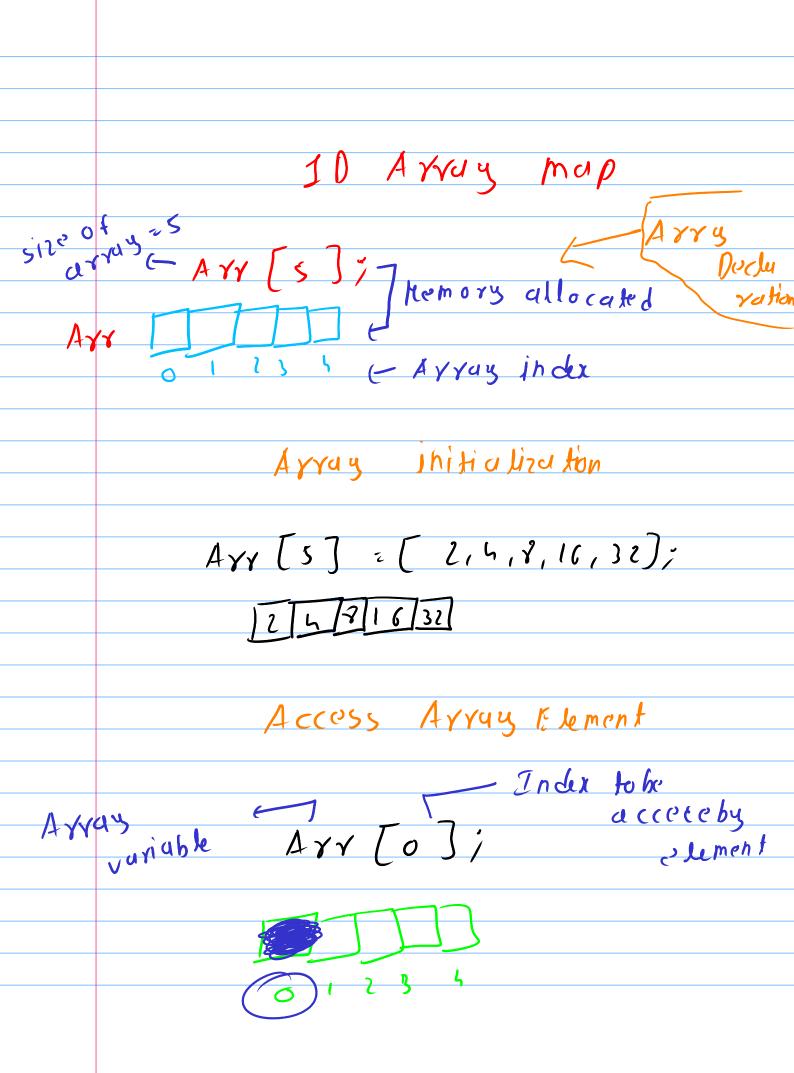
Drowback? - fixed size sequental

Collection of element

TYPES OF Array

Array

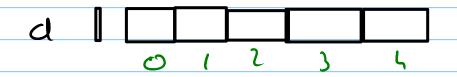
1) Array The array has only one index ( subscript) can be viewed as a librar sequence ++2 -- in single direction syntax of 1-0 Array Decluration Array Type array name [size]; Type: Date type Size z max number of clement that can
ho stored in array int num 3);



# Types of array Initialization

```
In compile - time, the array in initialized
when they are declared
int num []: [3,4,5], in to arry declar
chernum [] = ["aib,c'];
 chernum = "abc";
       Run time Initialization
 Use for lurge size array
   tor(jzojj/5; j++)
```

#### Summerized - 1D Array



Size of the array = 5

Index = 0,12,3,4

fixst Index = 0 upp « bound Last Index = 4 lower bound

# 21) - Array

Visualize it in a tubulur form

Declaration Array initialization of

Array

Types array name [size1] [size2] -> & Same

Size1: Yows | Size1 & Size2:

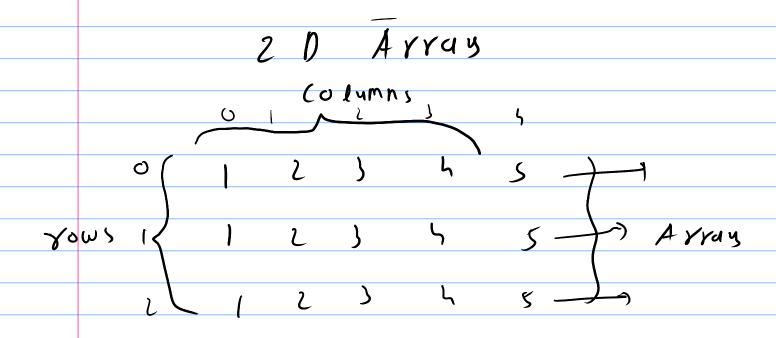
Size2: columns | max number of yows & column

Ext Int num[s] [s]

The num[s] [s]

The num[s] [s]

## Memory map



|   | H Advantyus                               |
|---|---|
| ^ | seardiny is very casy                     |
|   | Multiple value store in single variable   |
|   | used to represte complex dutu like Matrix |
|   | Hey have very low overhand                |
|   |   |
|   | casily                                    |
|   | de clure jn tialize                       |
| # | Disadvartuge                              |
|   | fixed size                                |
|   | ++ , not done in His dryay                |
|   |   |
|   |   |

