CS & IT ENGINEERING



C Programming

Arrays and Pointers Lec - 01



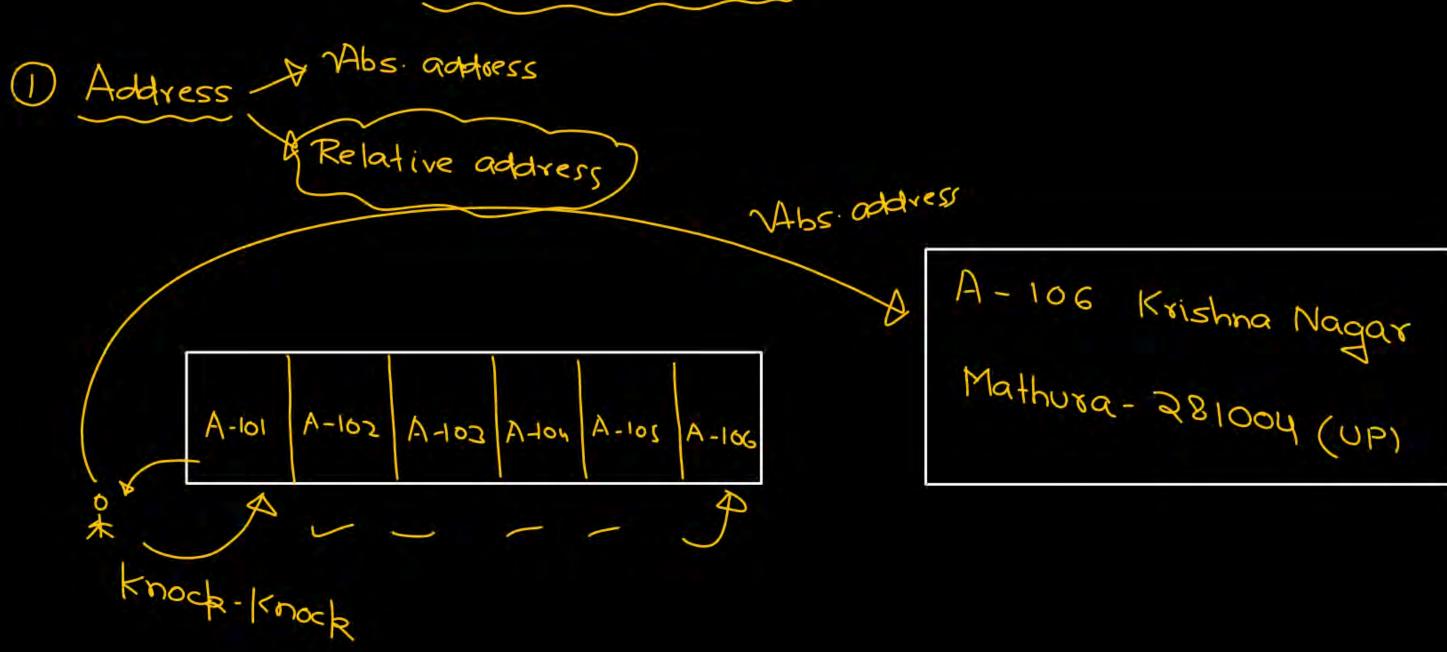
By- Pankaj Sharma Sir



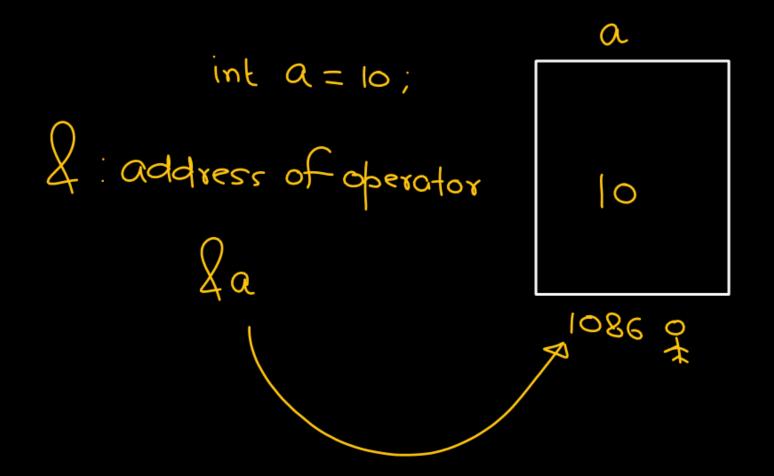
TOPICS TO BE COVERED

Arrays and Pointers (Part-01)

Arrays & Bointers



Plow to find address of some var.



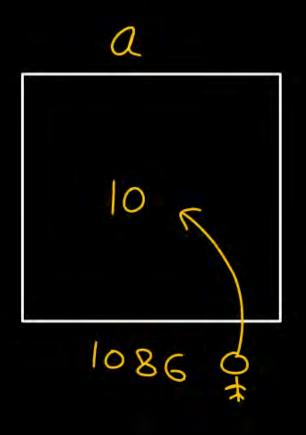
Int
$$a = 10$$
;

La: Memory

| Ocation
| 1086

+ (La) = value at (themory) = 10
| location | 1086

int
$$a = 10$$
la
 $7(la)$



Why amays?

Multiple var. same

int m1, m2, m3;

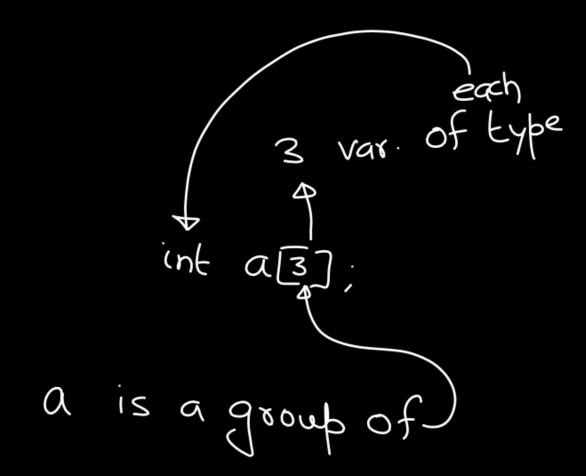
float avg;

scanf ("/d/d/d', 2m, 2m2, 2m3);

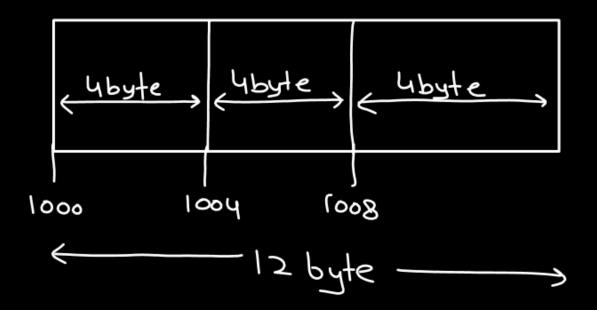
avg = (m+m2+m3)/3.0;

Soo students

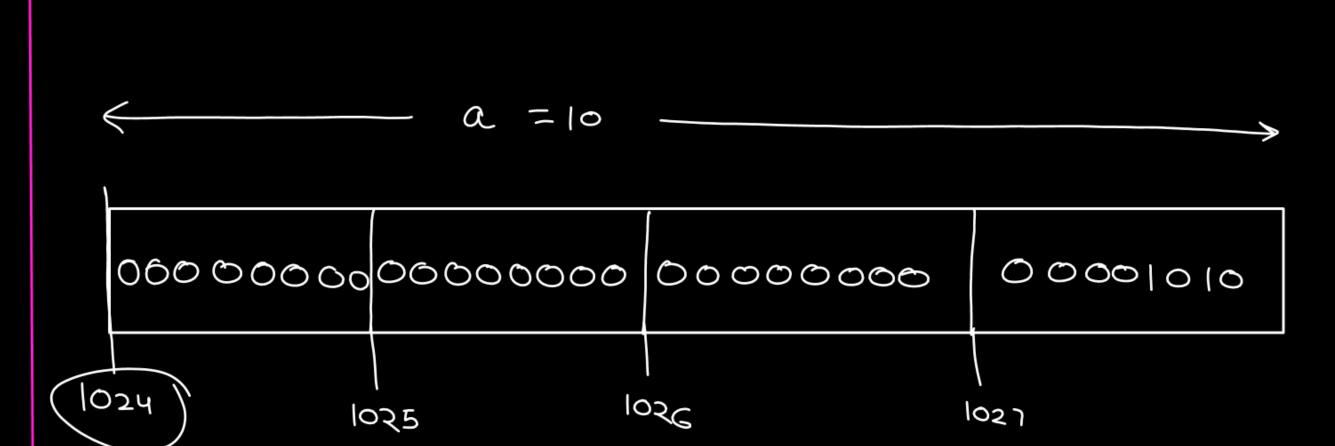
Int a,b,c; 3 variable



ink-4byte

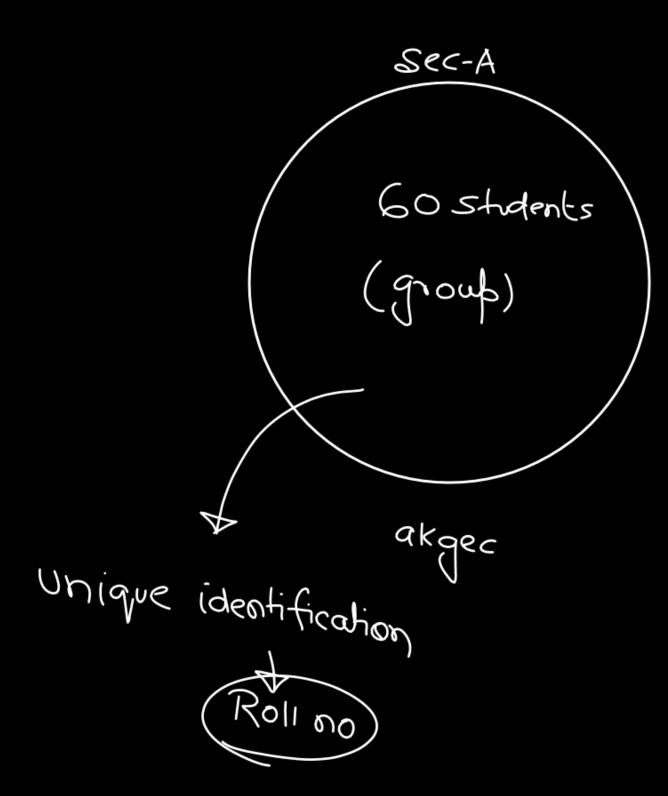


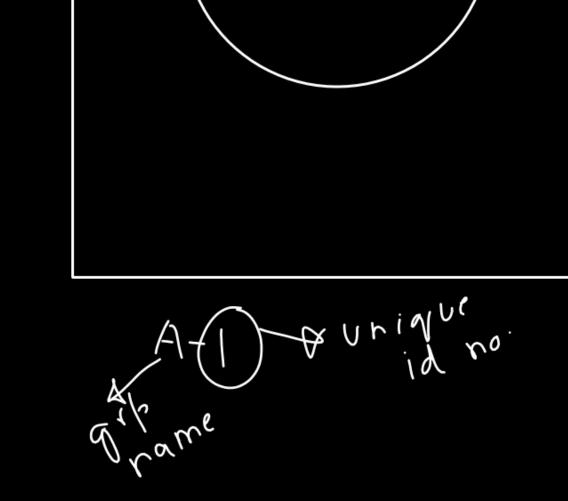
int a = 10;

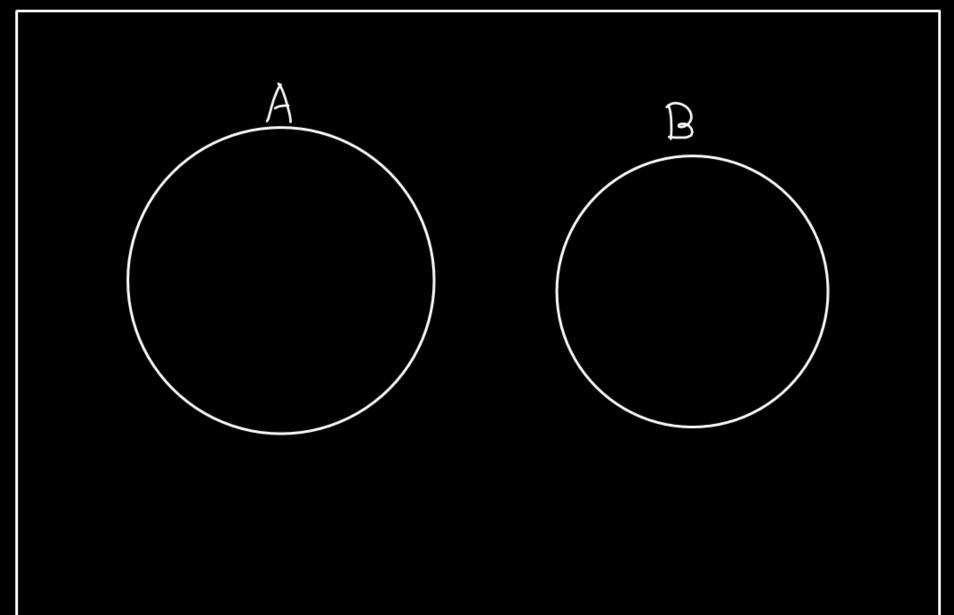


a

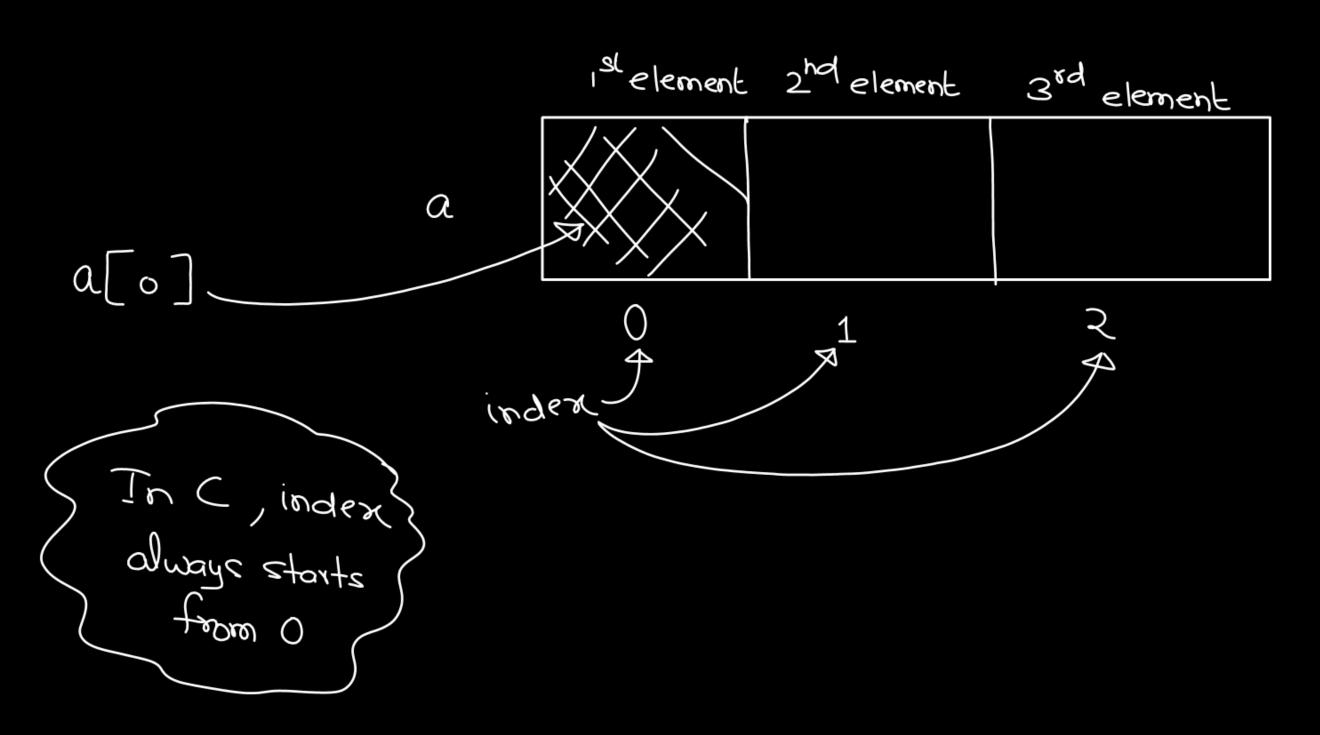
3 elements are rep. by Same names a





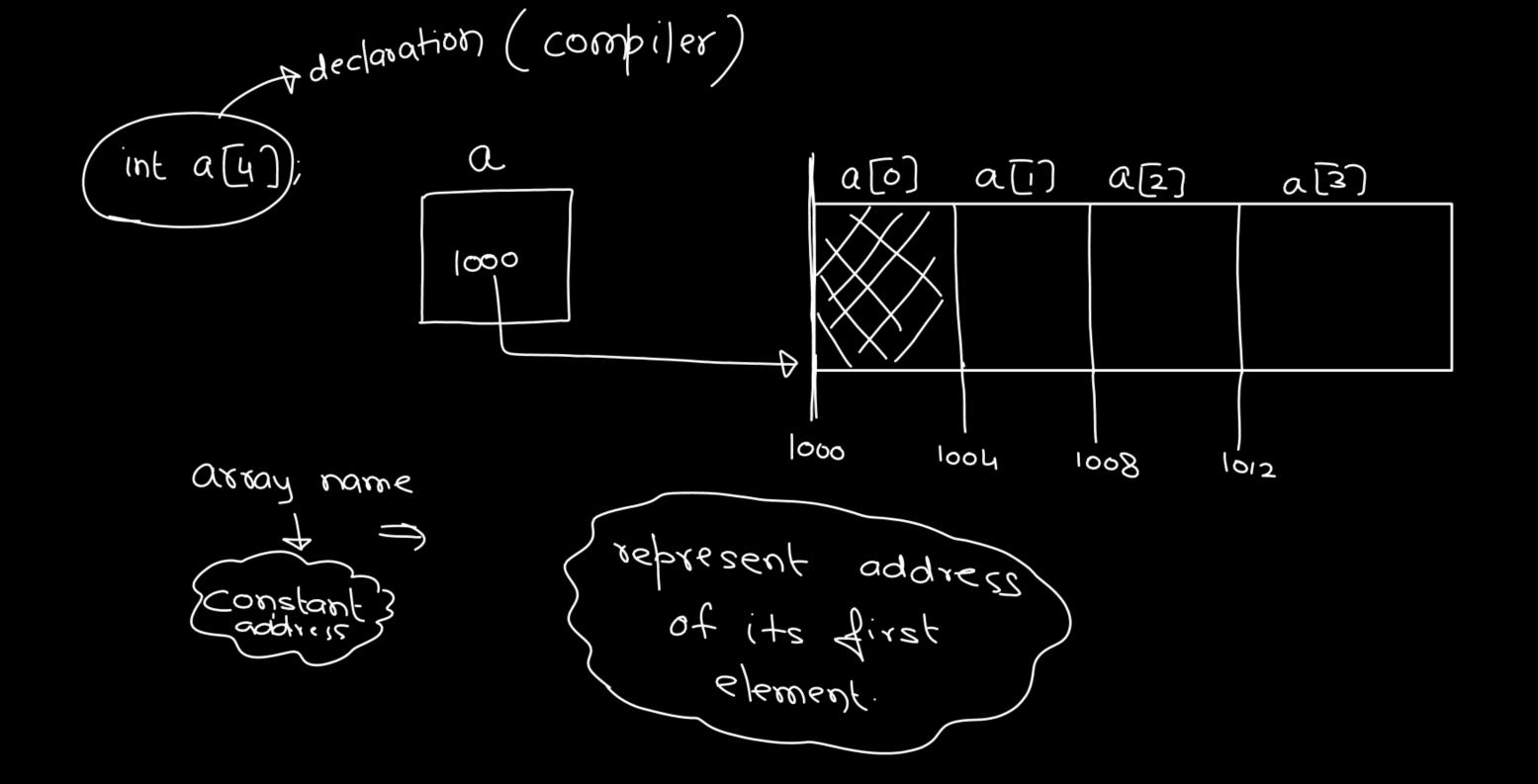


int a [3];



0	1	2	3
		10	

a



bcz array name is a const address

+ + Array-name

-- Array-name

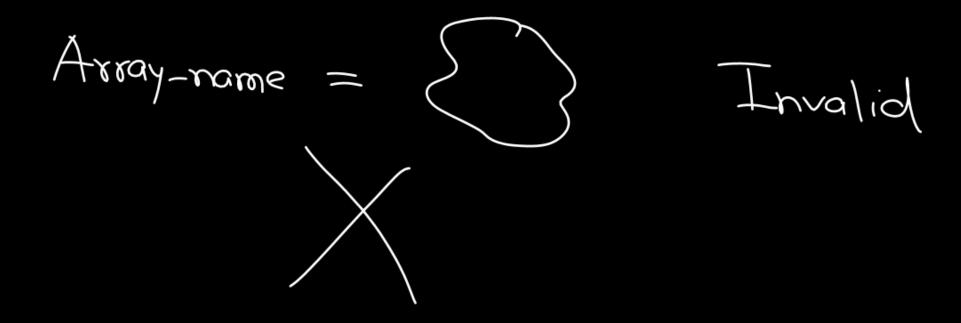
Array-name ++

Array-name ++

Array-name--

Lvalue = Rvalue

Lvalue can not be a constant.



Void main(){

Int a;

Socal printf ("/d",a);

Garbage

void main() { int a[4]; printf("/d", a[2]), Garbage 3 a[0] a[1] a[2] G G G

int a[4];

Collection of

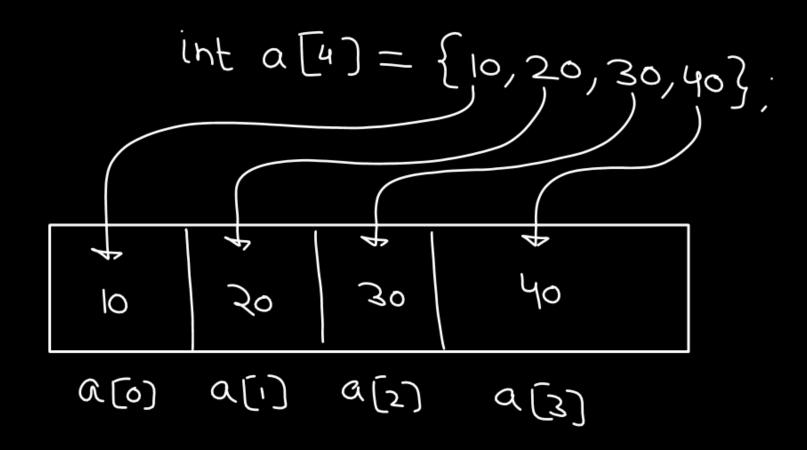
4 variable

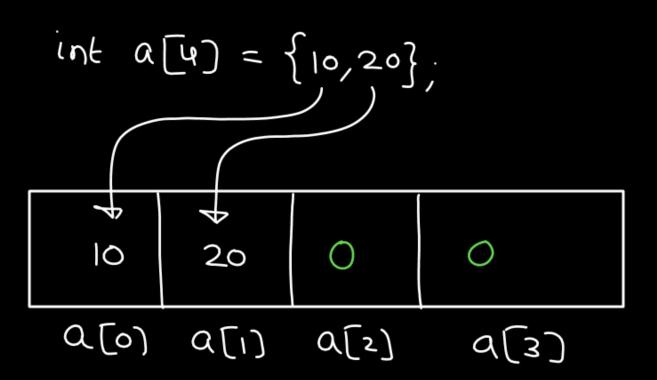
a[0]

a[1]

a[2]

a[3]





int a[] =
$$\{10,20,30\}$$
;

int a[];

int a[] = $\{10,20,30\}$;

{

Prove

rolves

int a[3)

variable int
$$a = \{10\}$$
int $a = 10$

```
#define max 10 int a[10].

Void main(){

Int a[2+2×3],

Int a[max], int a[2×sizeof(int)]

=
```

int a[4];

16 bytes & conti

