

1 THB → 2.4 INR  
=

500 ML → 20 THB

Europe  
=

1 July → 15 July

Love Babbar

VISA Reject

# Mega Class: Pointers (Practice)

Special class

15000 → 21000

Visa free

3 True Exp :=

① = Cafe Dubai → IND, ?AK → AK =

IND

② Dish ---

Pointer Mega Seminar →

3-4 hrs

⇒ Q.1)

int i = 3

int \*j;

j = &i;

⇒ O/P

i → 3

&i → 303

j → 303

&j → 404

\*(&i) → 3

\*j → 3



(2)

$i = 3$  ,  $*j$  ,  $**k$  ;

$j = 4i$  ;

$k = 4j$  ;

$4i \rightarrow 303$

$j \rightarrow 303$

$*k \rightarrow 303$

$4j \rightarrow 404$

$k \rightarrow 404$

$4k \rightarrow 505$

$j \rightarrow 303$

$k \rightarrow 404$

$i \rightarrow 3$

$*(4i) \rightarrow 3$

$*j \rightarrow 3$

$**k \rightarrow 3$

③

```
void Swap (int *x, int *y)
```

```
{  
    int t;  
    t = *x;  
    *x = *y;  
    *y = t  
}
```

ERROR

```
main()
```

```
{  
    int a = 10;  
    int b = 20;  
    swap(&a, &b);  
}
```

O/P

a =

b =

③  $\text{junk}(\text{int } *i, \text{int } *j)$

{

$*i = \underline{*i * *j};$

$*j = *j * *j;$

}

$i = 5, j = 2$

$\text{junk}(i, j);$

$\hookrightarrow \text{o/p} \rightarrow$

$*i$

$++$   $++$

$*i = *i * *i;$

$*i = 5 * 5$

~~$*i = 5 * 5$~~

$i = 25 \quad j = 4$



⇒ ~~Q~~ int fn (int \* m) <sup>int</sup>  
    {  
        return m + 2;  
    }

address + 2

addr

int \*

main()

{ int i = 35, \*z;

z = fn(&i);

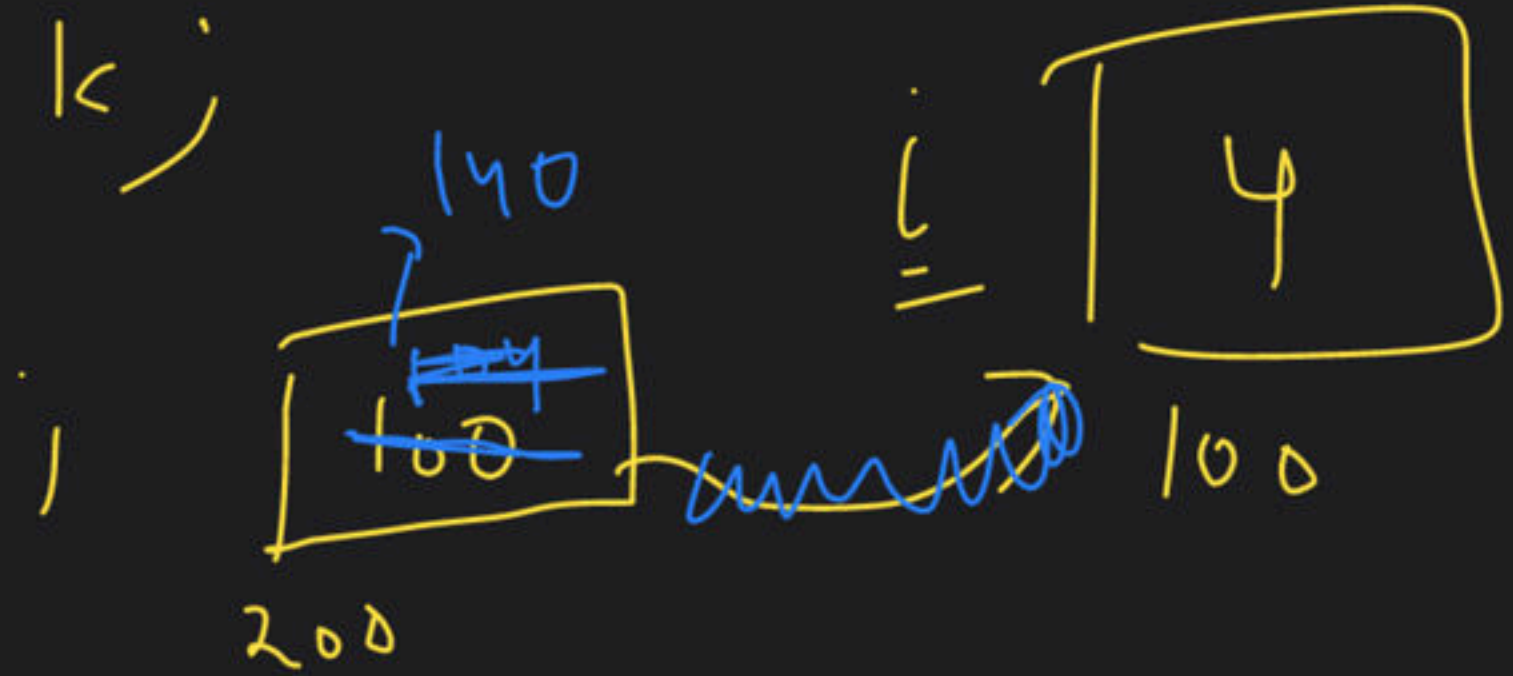
com → z;

return type  
↳ int

⇒

int i = 4, \*j, \*k;

j = 4i;

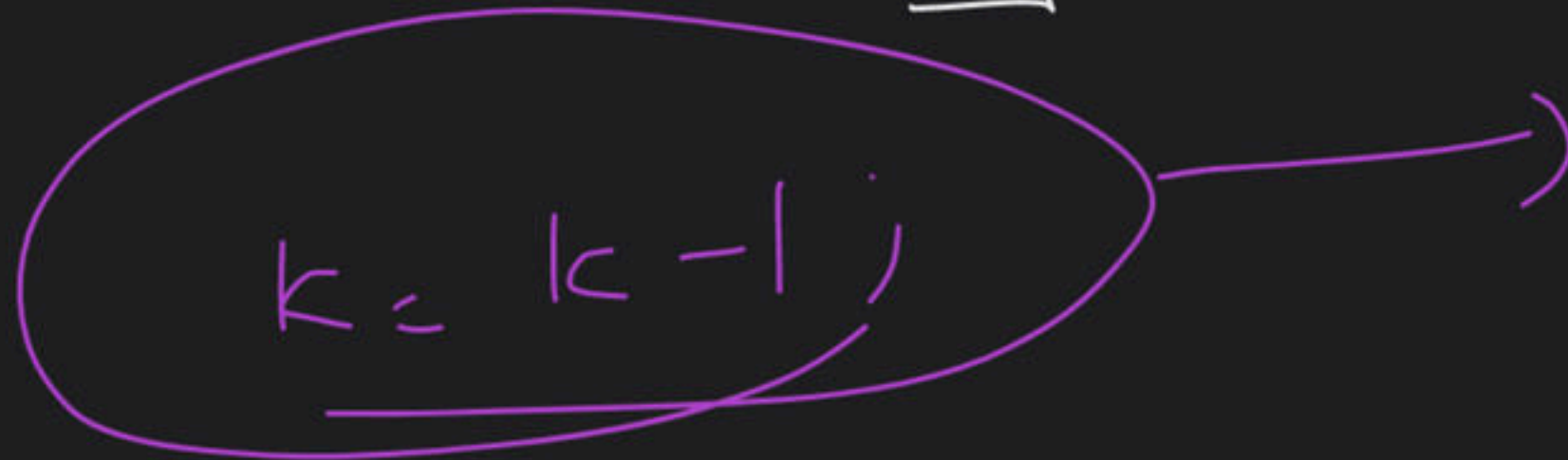
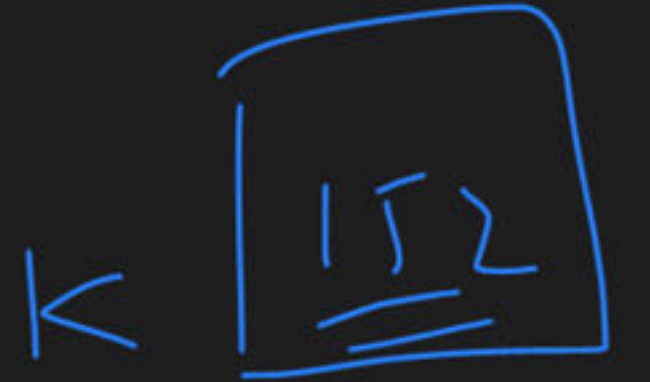


j = j + 1;

j = j + 9;

k = j + 3;

→ What will happen



k



Q

```
int num[] = { 24, 34, 12, 44, 56, 17 }  
int i, *j;
```

100      104      108      ...

$j = \&num[0];$



```
for (i = 0, i <= 5; i++)
```

```
{  
    cout << *j;  
    j++;  
}
```

↓

100	, 24
104	, 34
108	, 12
112	, 44
...	



Q int x[3][5] = { {1,2,3,4,5}, {6,7,8,9,10}, {11,12,13,14,15} } ;

~~int \*n = &n;~~

int \*n = &n[0][0];

$*(*(*n+2)+1) \Rightarrow 12$

$*(*n+2)+5 \Rightarrow 8$

$*(*n+1) \Rightarrow 6$

$*(*(*n)+2)+1 \Rightarrow 4$

$*(*(*n+1)+3) \Rightarrow 9$

$*n \Rightarrow$  ~~1~~

$*n+2 \Rightarrow 3$

$(*n+3)+1 \Rightarrow 5$

~~! \*n~~  
 $*n++$

$++*n \Rightarrow 3$

$*n+1 \rightarrow 7$

$4n$

$n$

100 104

→	1	2	3	4	5
→	6	7	8	9	10
→	11	12	13	14	15

$*n$

2



2D static

int a[3][5]

Bataya ma?

ptr++

int (\*ptr)[5] = &a;

~~int \*ptr = &arr;~~

2D  
dynamic

2D dynamic  
array

int (\*n)[3][5] = &a;

✓



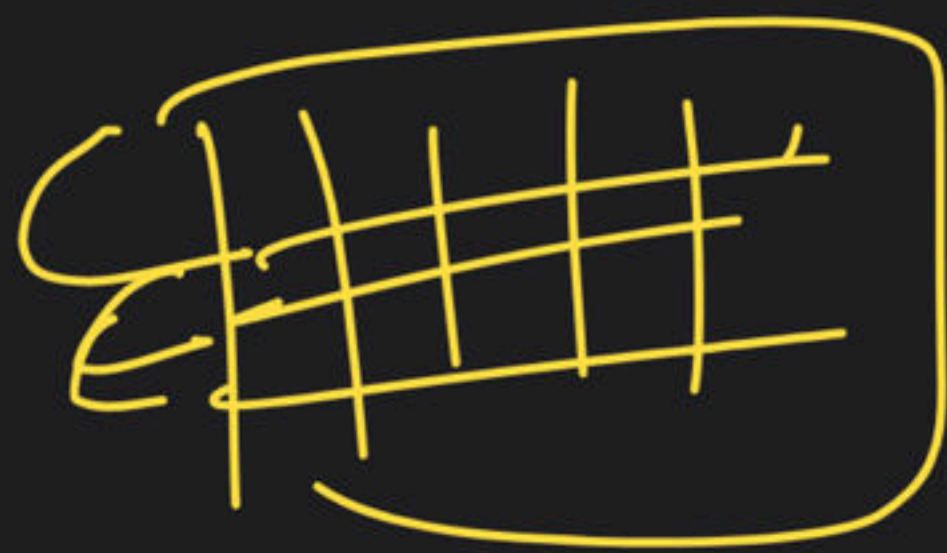
`int x[3][5];`

`n++`

① 1 dabba  $\rightarrow$  `int *n = &x[0][0];`

② Pointer to <sup>row</sup> array of 5 integer

$\downarrow =$



`int (*n)[5] = x`



`&x[0]`



③ whole array ptr.  $\rightarrow$  ptr. to entire array

int (\*n) [3] [5] = ~~0~~ x OR 4x;  
| ≡ = ≡

↓

~~2~~ ✓ 2 2 Doubt

Let us C



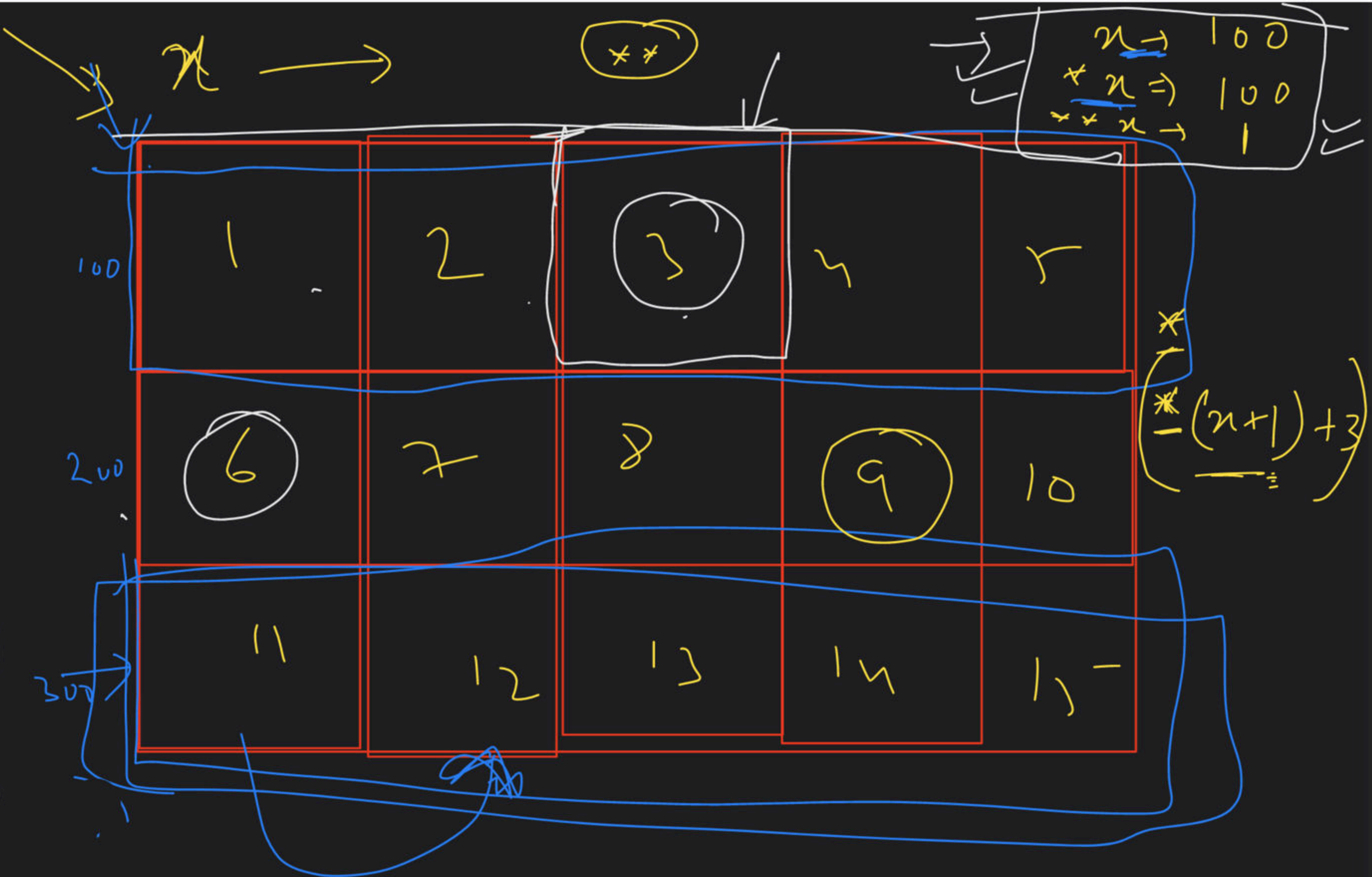
$$3 + 5$$

$$\frac{11}{8}$$

$$\frac{*x}{*x+2}$$

$$\downarrow$$

$$3$$



→ `int** A = new inty[Rows]`

f — Loop

`a[i] = new int[Col];`



`a[2][1]`







=>

1 Dabbe

<sup>ID</sup>  
int a[5] = {1, 2, 3, 4, 5}<sup>100</sup>

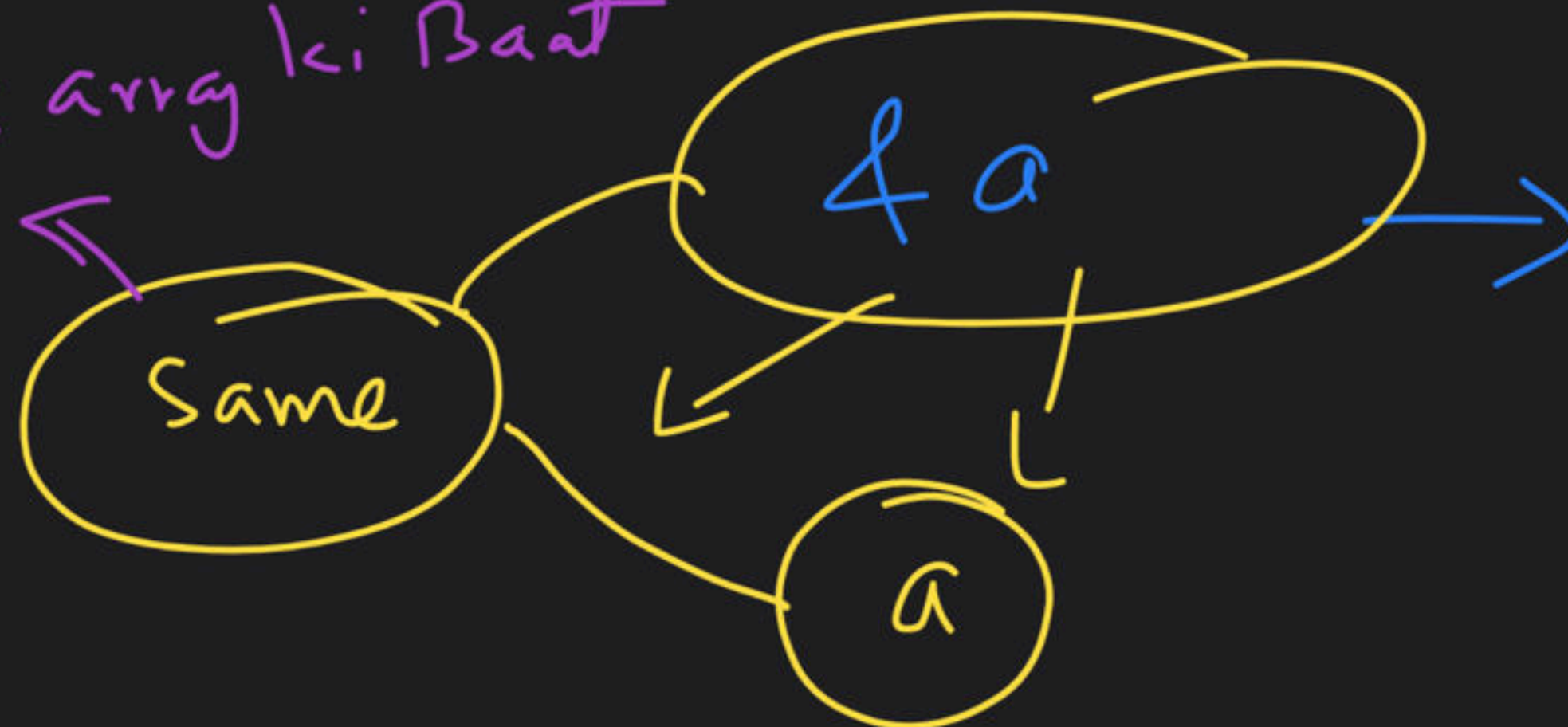
One element address

4 a[0]

add of first



Whole array ki Baat



address of an array  
of size 5  
==

2D

int a[][5] = { { 5 elem }  
                  { 5 elem }  
                  { 3 }

=> ① &a[0][0] → add of  
                  single DABs

②

a ) → whole array  
&a      ↓

5 element -  
( )

a → 5 elem  
      ↓  
      1st row