

ARRAYS AND POINTER-1



Lecture No.12



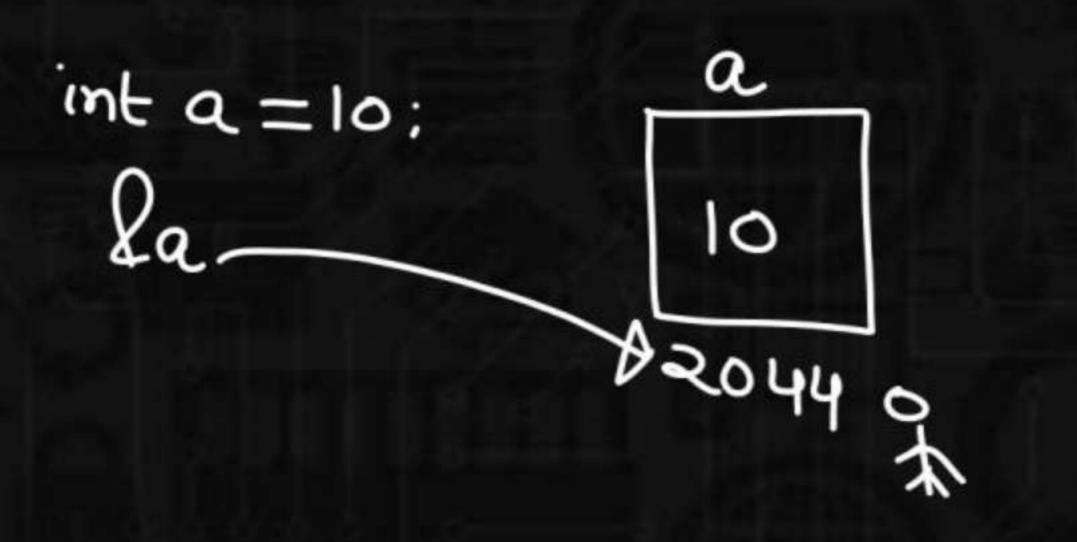
By- Pankaj Sharma SIR

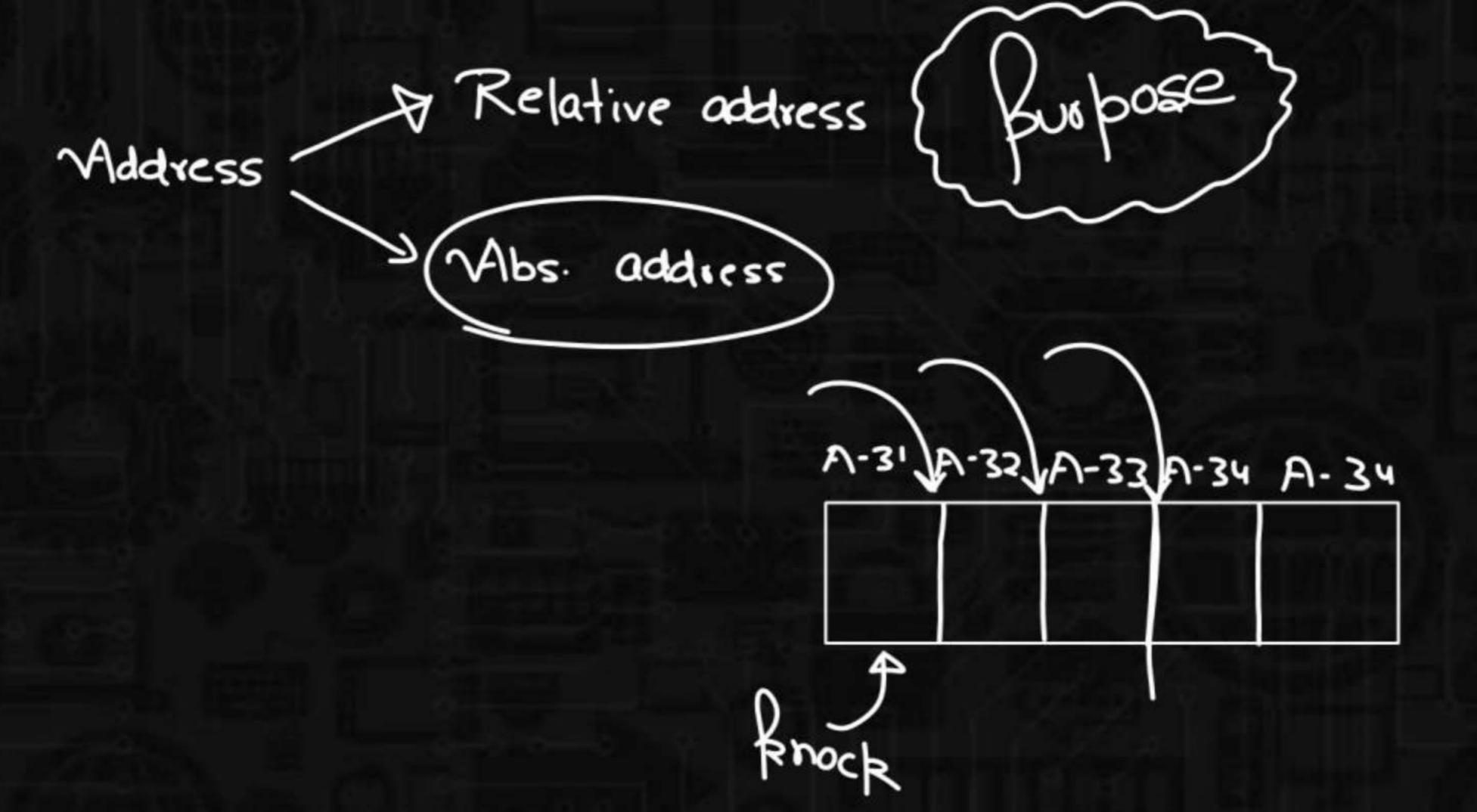


Address:

A-34. Krishna Nagar Mathura - 281004

2: address of oberator









4: value at oberator

$$a \rightarrow 10$$
 $a \rightarrow 10$ 
 $a \rightarrow 1036$ 
 $(a \rightarrow 1036)$ 
 $(a \rightarrow 1036)$ 



## 50 Students



```
int m1, m2, m3;

float avg;

= (m1+m2+m3)/3
```

int m1, m2, m3, m4, ms, m6, m7, m8, mA, m10, m11, ...

500 students

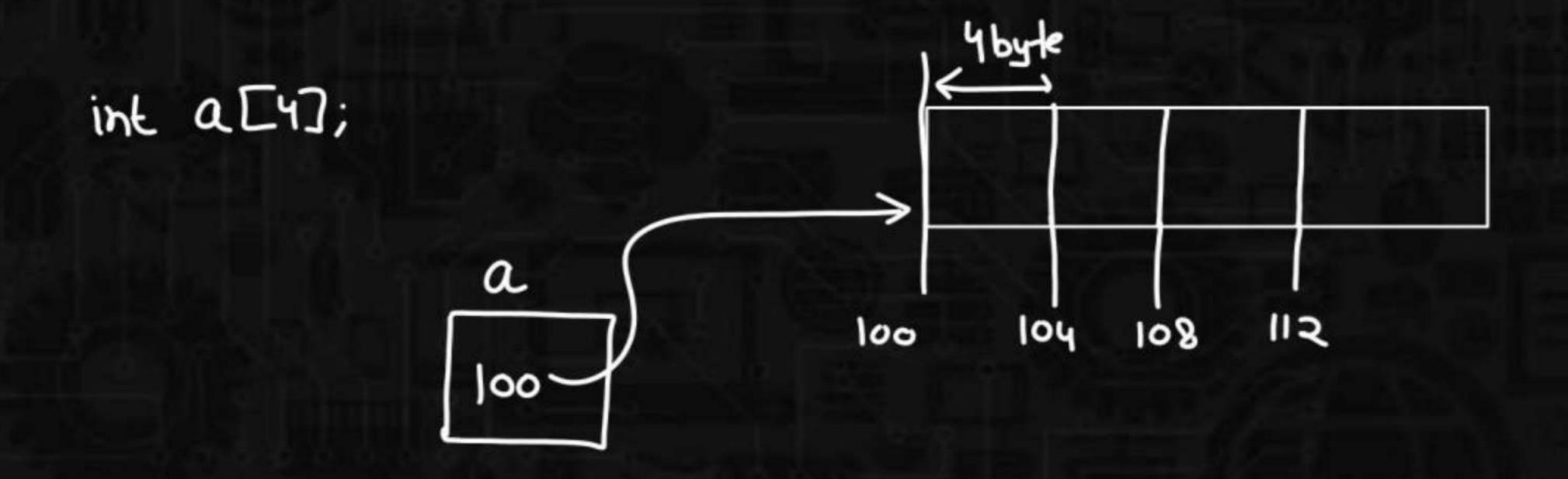
(של שוי'שש'שש'ששייוש אין) (שך שוי'שוי אשוי



int a, b, c;

1) Homogenous types of elements.





- ② sequential stor€
- 3) Marray name represent address of first element.



(4) array-name: constant

a++ a++

all are invalid

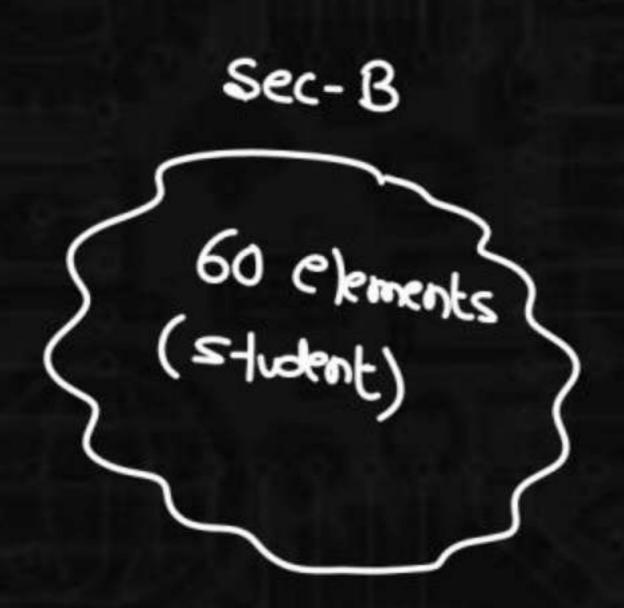


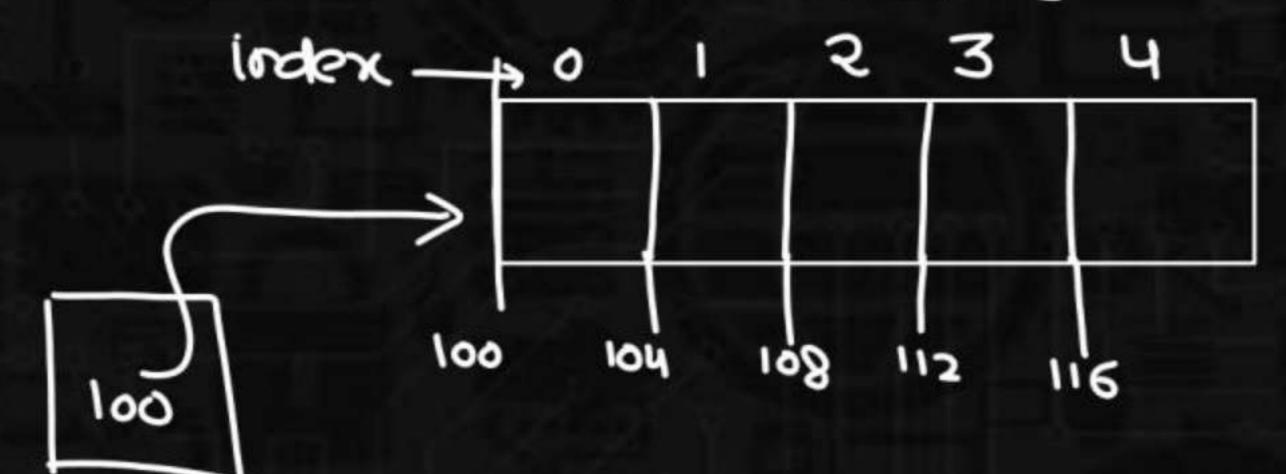
5.) int a [5];

0 to size-1

a is a group of 5 similar type (int) of element.

Q

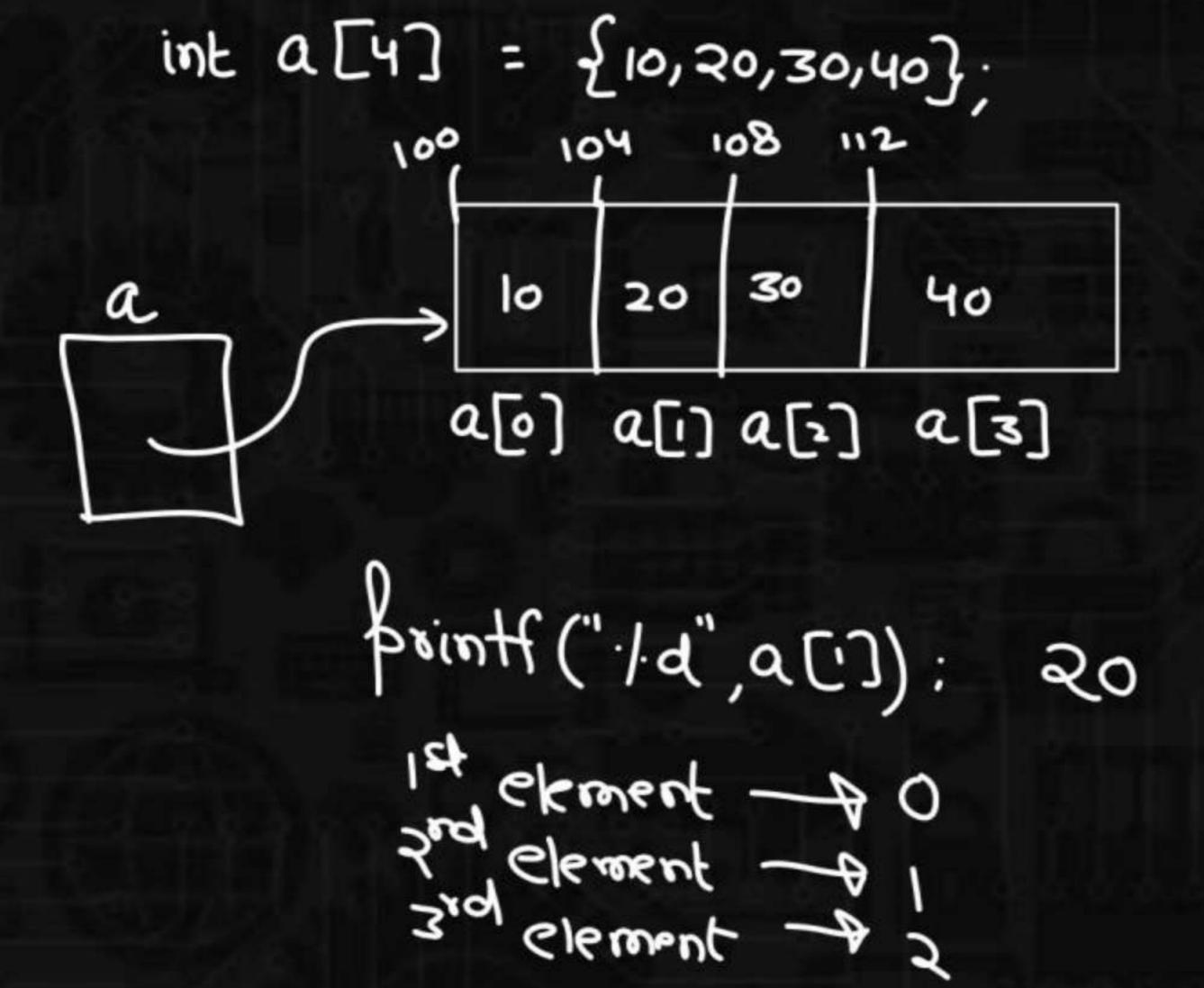




unique-identification no: index







int a;

printf("/d",a); Garbage

int b[4];



## 1-Darray



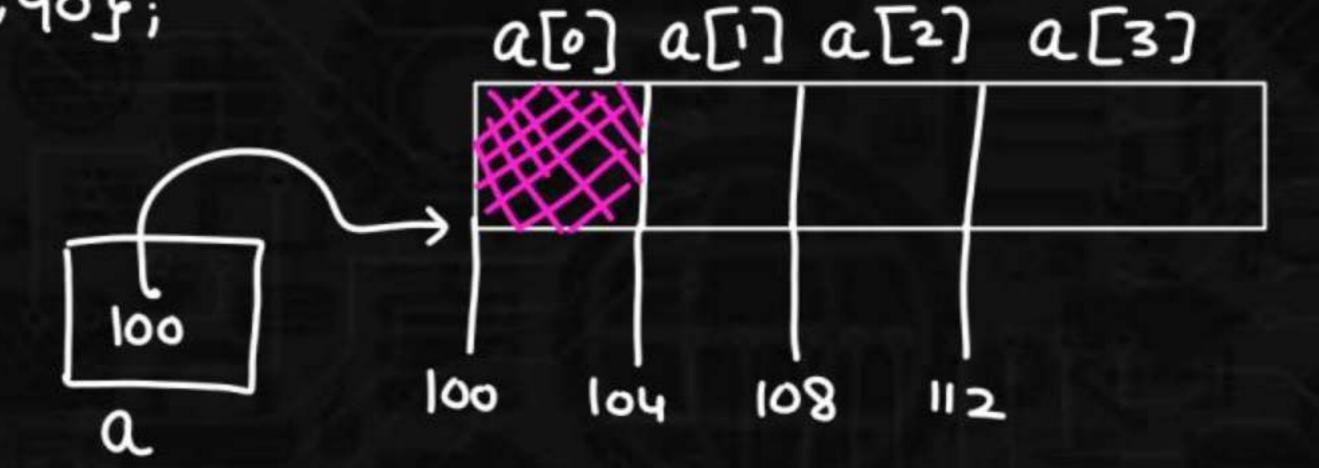
acal;					
	Gar	Sax	COX	Gor	
					_



## Array and address

1) Name of an array is address of first element

a same la [0]





$$a = 2a(0)$$

$$*a = 42a(0)$$

$$*a = a(0)$$



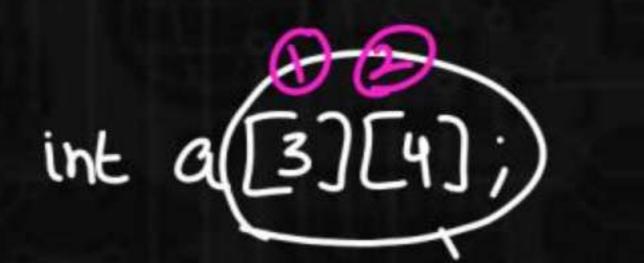
1-dimension

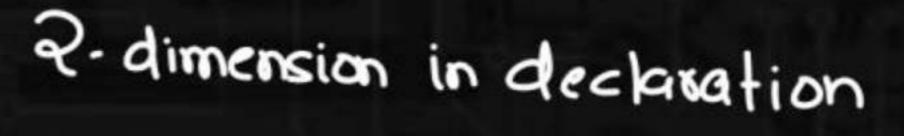
$$a[o] \rightarrow 10$$

$$a[i] \rightarrow 20$$

$$1-dim$$









- a -> Address/value
- 2 a[o] -> Address/value

  3 a[o][o] -> Address/value

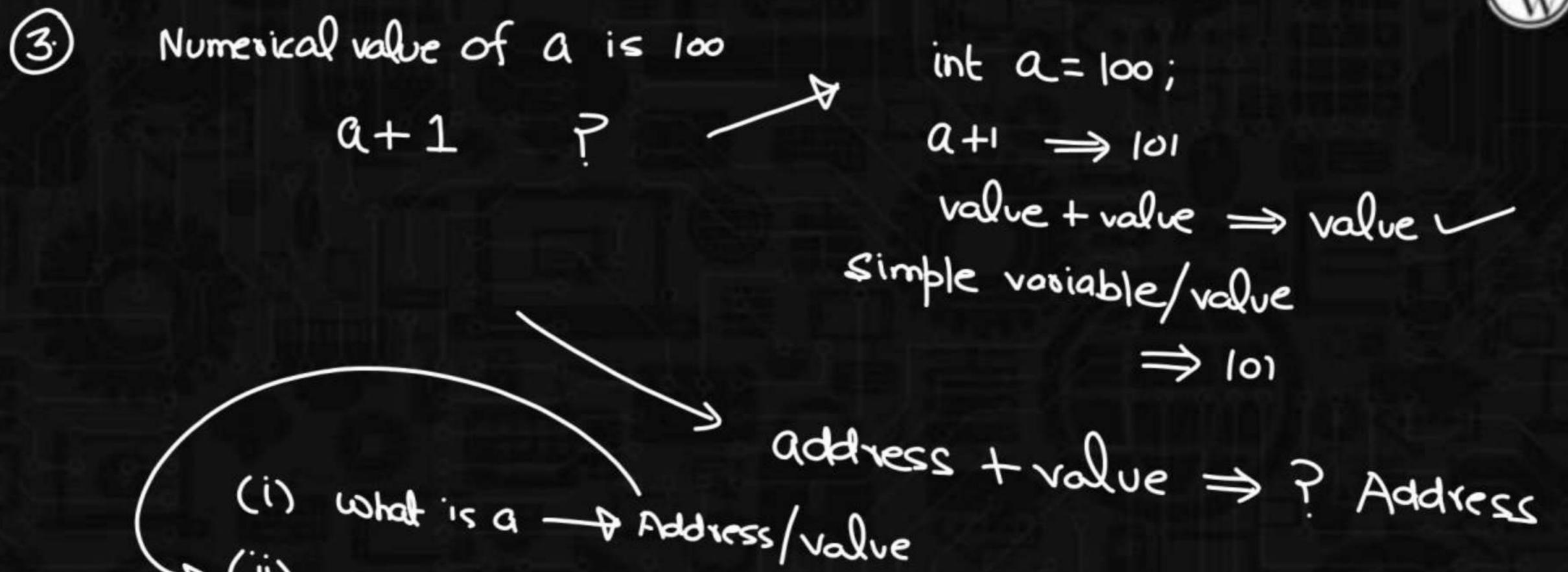
  value

0-dimension

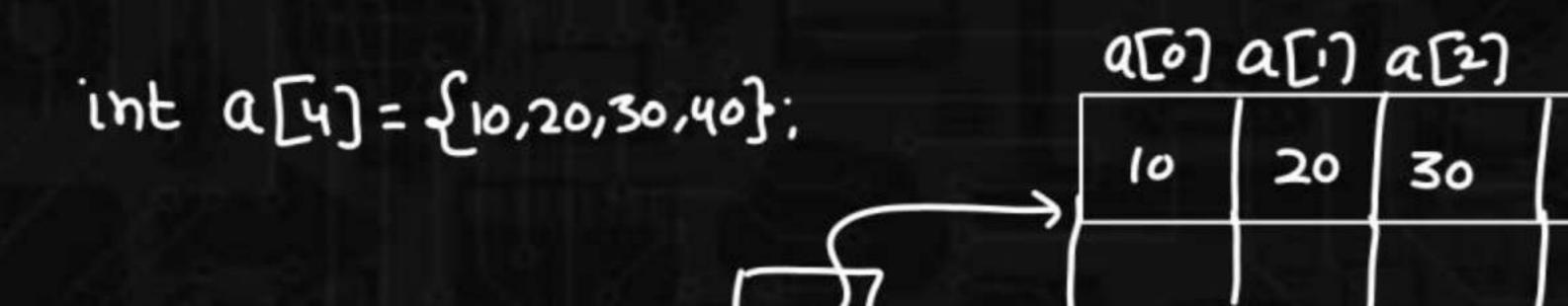
- dimension

2-dimension





P(ii) Find out whose oddress is represented by q.



a



a [3]

$$a+1 = 2a[0]+1x4$$



	30	40
2	3	

$$f(a+1) = f(corotion 104) = fa[i]$$

$$(a+2) = 30 = a[2]$$

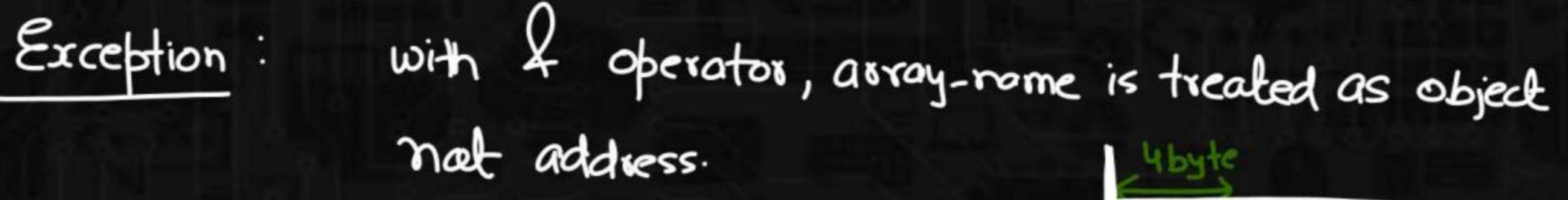
$$a[2] = *(a+2)$$
 $a[1] = *(a+1)$ 
 $a[i] = *(a+1)$ 

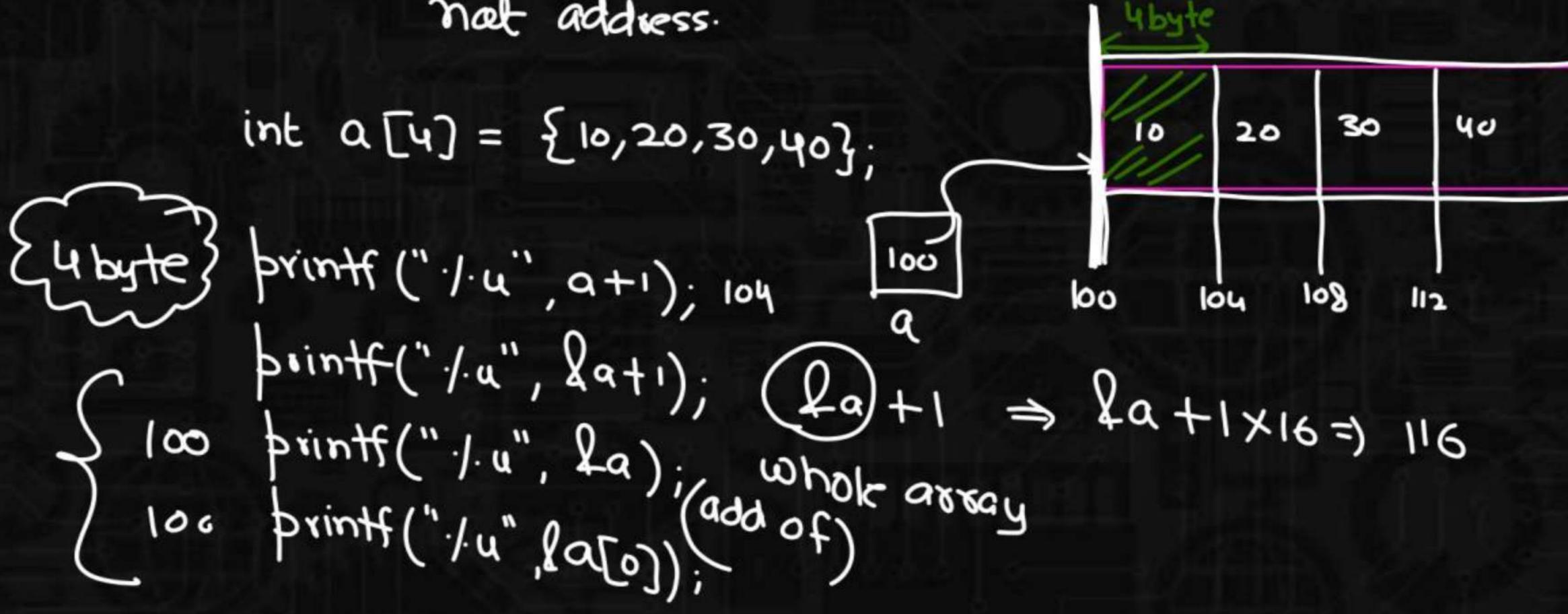


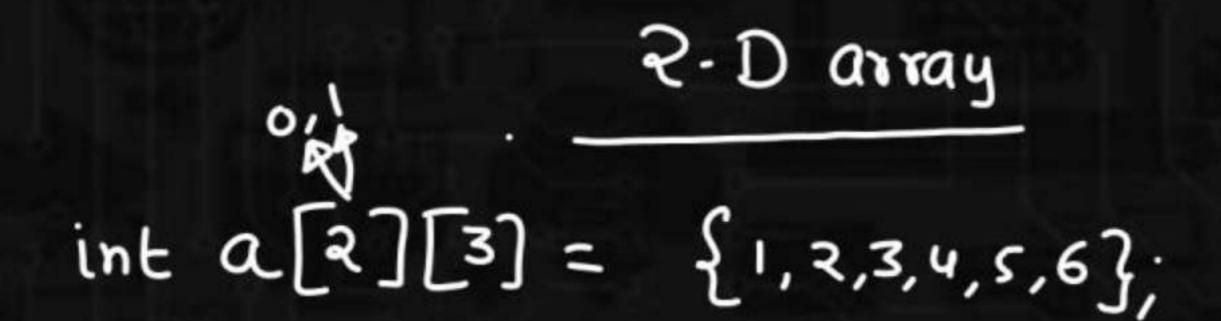
$$t(a+2)$$
 $t(2+a)$ 
 $a[2]$ 
 $a[2]$ 

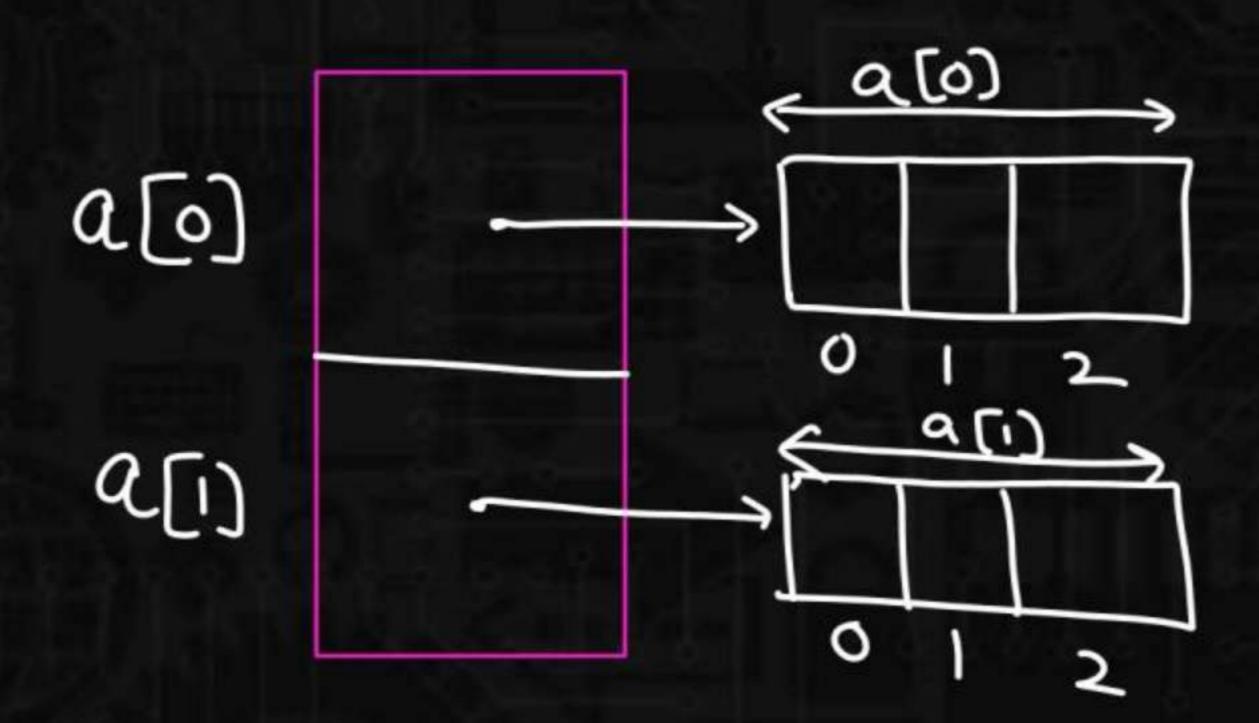
$$a[i] = *(a+i) = *(i+a) = i[a]$$



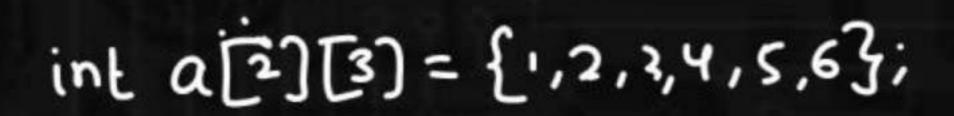




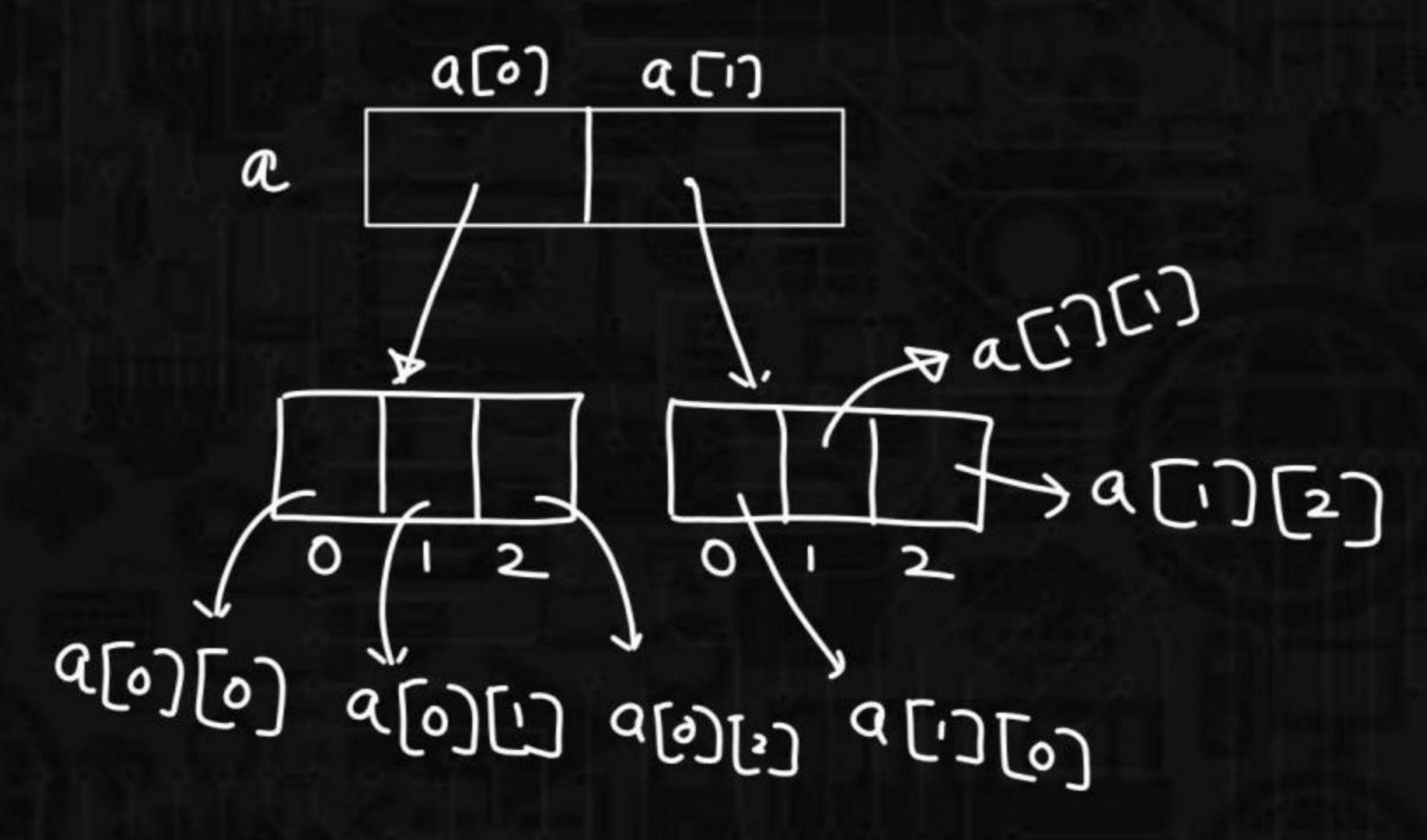












int a[2)[3) = {1,2,3,4,5,6};



