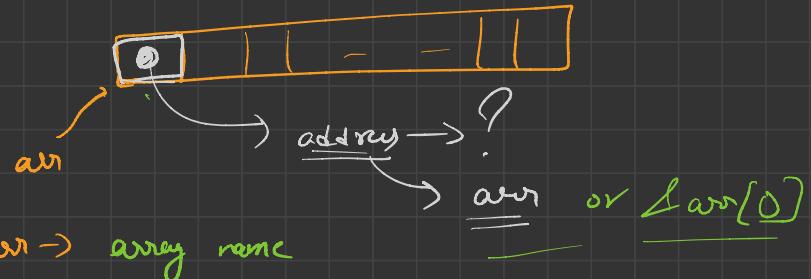



Pointers (Part = 2)

→ int arr[10]; → $4 \times 10 = 40$



→ operator →
Address of

arr array

↳ first location address

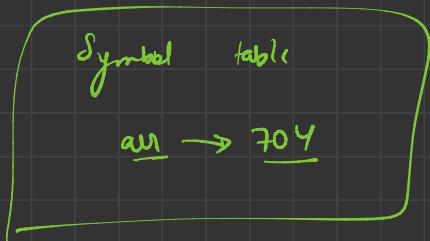
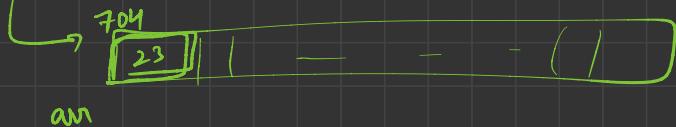
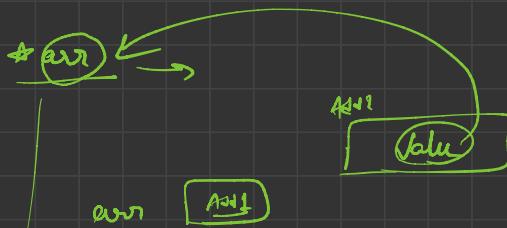
&arr[0]

↑ $\text{arr}[10] \rightarrow \underline{\text{arr}} \rightarrow \text{first loc address}$

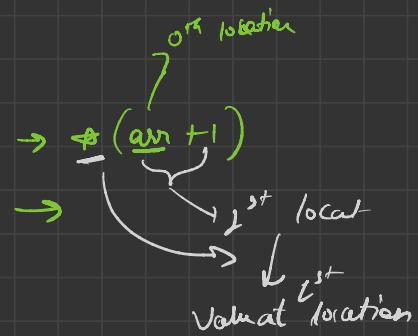
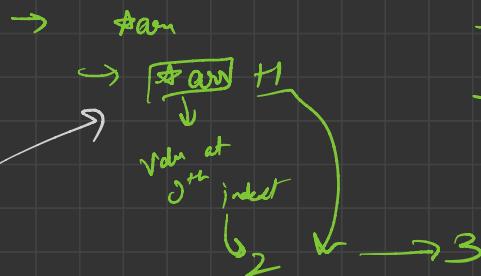
 ↳ $\underline{\text{arr}[0]} \rightarrow \text{value at } 0^{\text{th}} \text{ index}$

 ↳ $\underline{\text{arr}[0]} \rightarrow \sim\sim\sim$

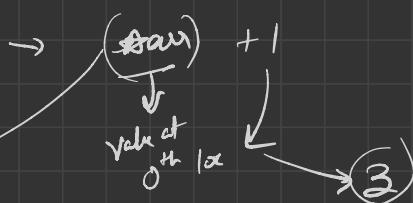
 ↳ $\underline{\&\text{arr}}$

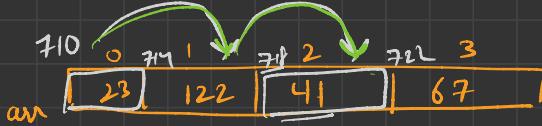
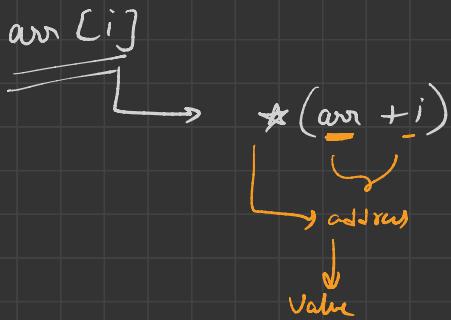


$\star \text{arr} \rightarrow 23$



$\rightarrow \star(\text{arr} + 1)$





$\text{arr}[2] \rightarrow \star(\underline{\text{arr}} + \underline{2})$

$\rightarrow \star(\underline{710} + \underline{2})$

$\rightarrow \star(\underline{718})$

$\rightarrow \boxed{41}$

$$\star p = \&a[0]$$

p^{++} \rightarrow next memory block

$$\boxed{arr[i] = *(\&arr + i)}$$

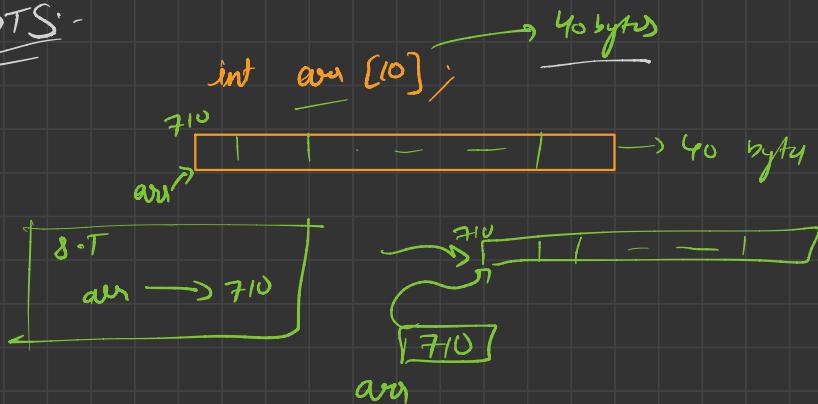
OR

$$\boxed{i[arr] = *(i + \&arr)} \rightarrow \cancel{\text{Error}}$$

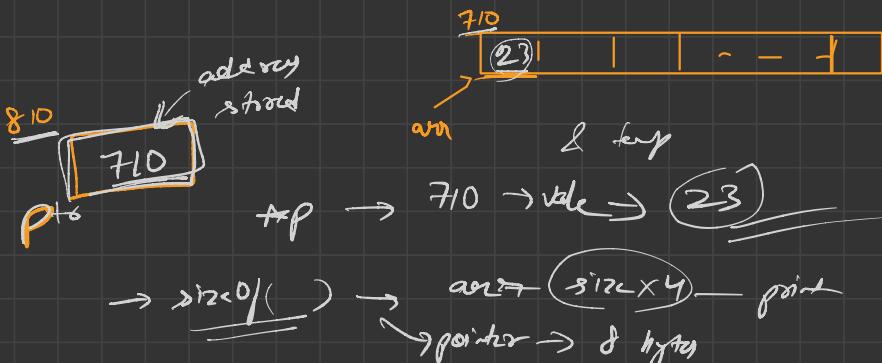
~~arr~~

Differences Pointers / Arrays:-

① BTS:-



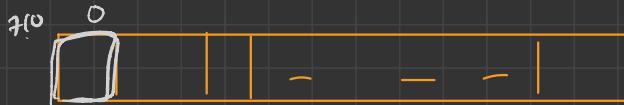
$$\boxed{\text{int } *p = \&\text{arr[0];}} \rightarrow \boxed{8 \text{ bytes}}$$



① $\text{Size} \rightarrow \text{arr} \rightarrow \text{No. of Block} \times 4 \rightarrow$ point
 $\rightarrow \text{ptr} \rightarrow$ 8 bytes

$\boxed{1182}$
 p

② $\&$ \rightarrow
 $\text{int arr}[10] = \{ 0 \};$



$\& \text{arr}[0]$ \rightarrow address of block at 0^{th} index

\hookrightarrow 710

$\text{int * } p = \underline{\& \text{arr}[0]}$

g23

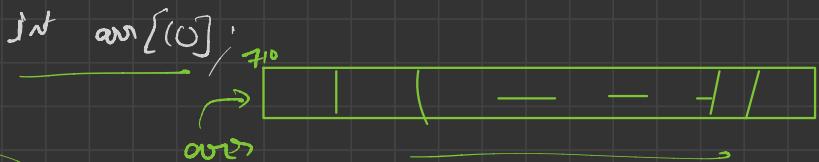


P

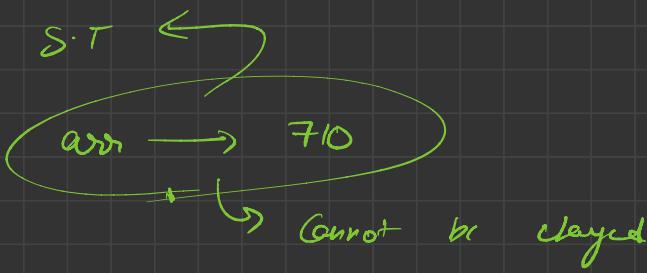
$\& p$ \rightarrow address of 1st value block

\hookrightarrow g23

③ Symbol table ka content \rightarrow cannot be changed



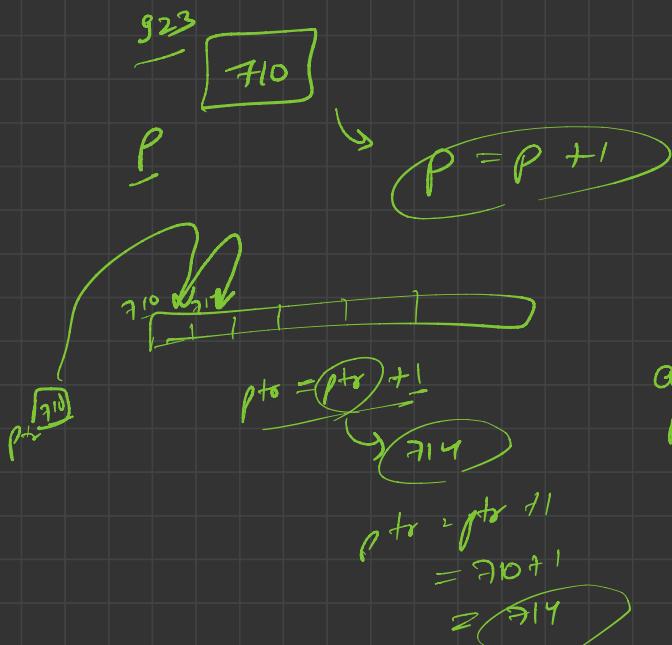
out < arr[1]



int arr[5];

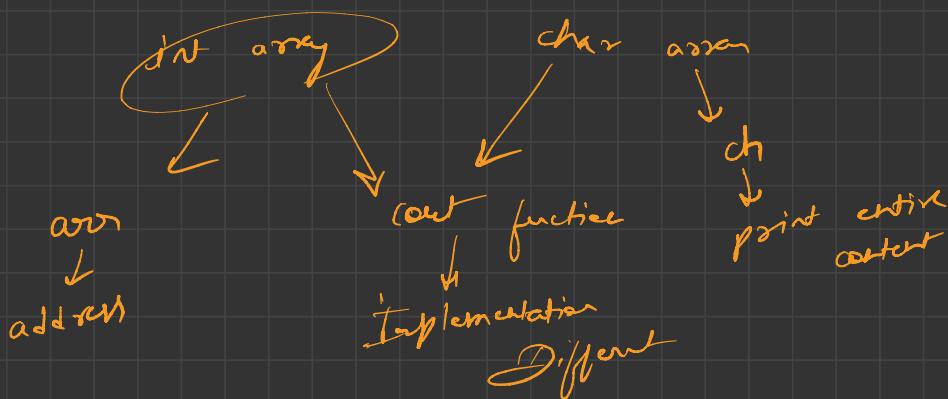
arr = arr + 1 \rightarrow 720

int *p = &arr[0]



Int array
 \rightarrow char arrays

Character Arrays



`int *ptr = &arr[0]`

`cout << ptr << endl`

`ptr` → `710`

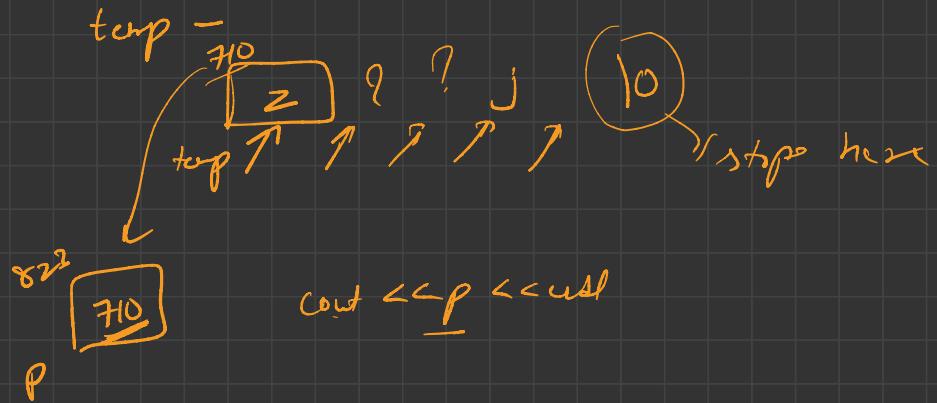
`ch[5] = "abcde"`

`char *p = &ch[0];`

`p` → `820`

`cout << p << endl`

`entire string`

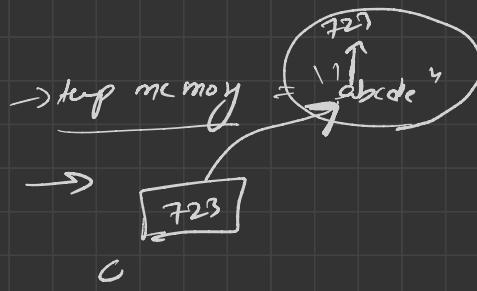
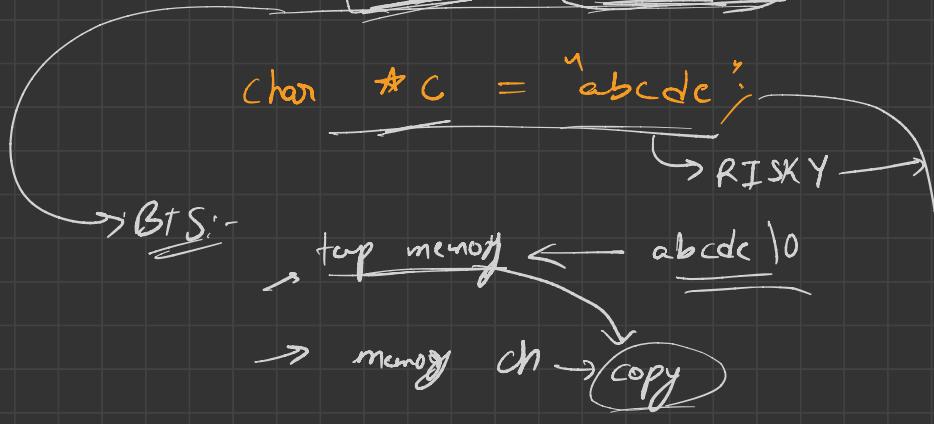


Differ

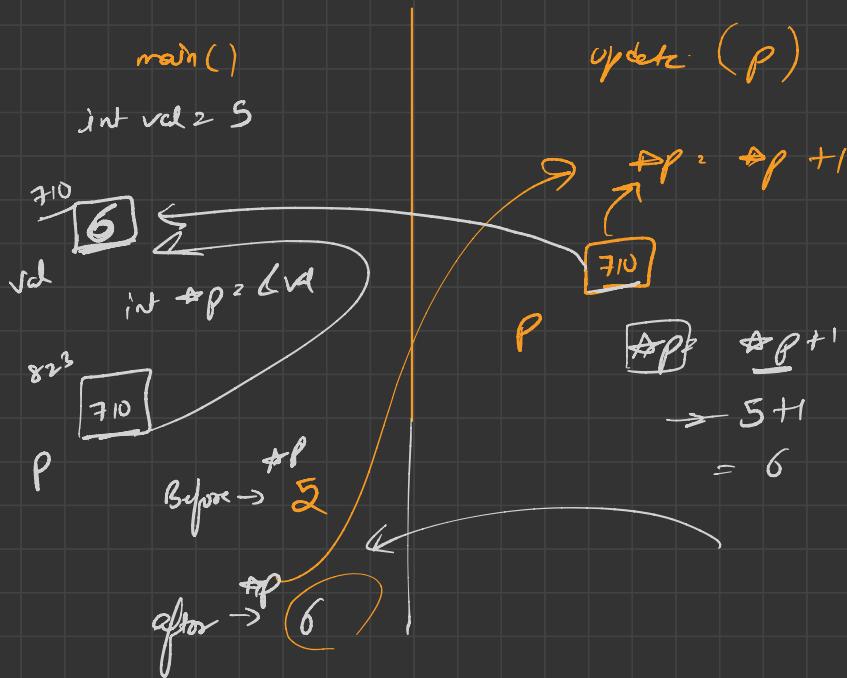
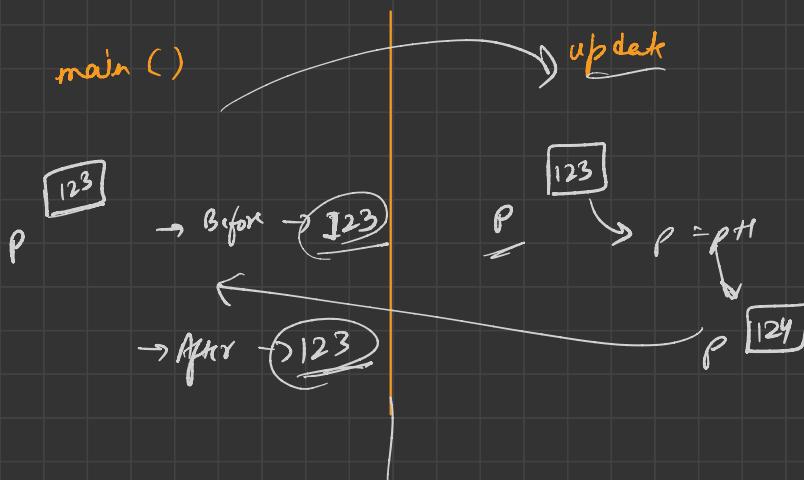
char ch[6] = "abcdef"

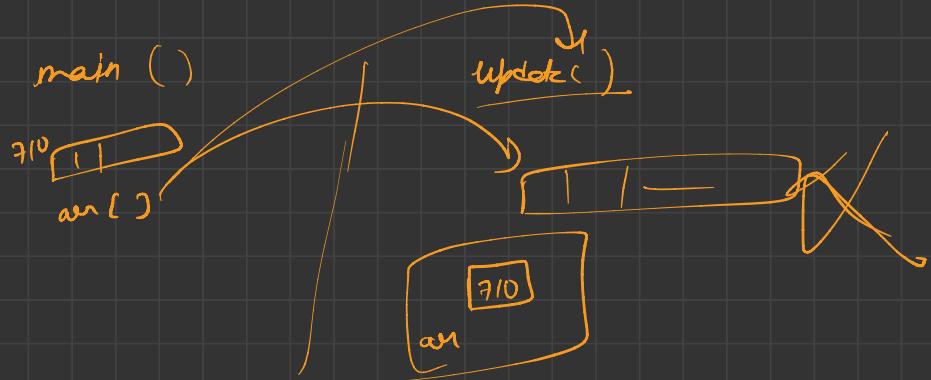
char *c = "abcdef";

NATHI KARNA



Functions

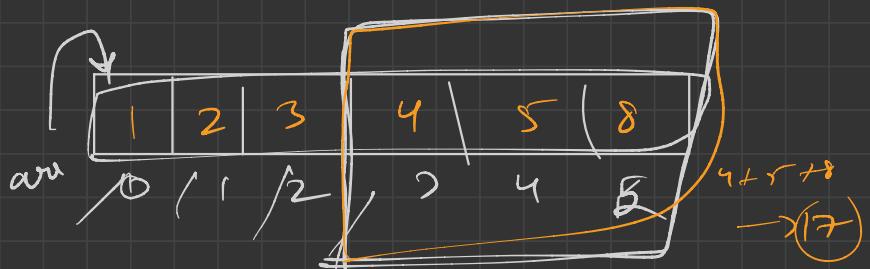




Benefit → ?

function → array → pointer

part of Array send/pas
to make to



Update
getSum(arr + 3)
getSum(arr)

