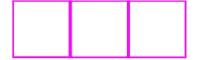


Syntax

```
int marks[3];
char name[10];
float price[2];
```



Input & Output

```
scanf("%d", &marks[0]);
printf("%d", marks[0]);
```

Inititalization of Array

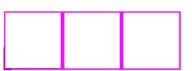
```
int marks[] = {97, 98, 89};
int marks[3] = {97, 98, 89};
```



Memory Reserved:

Pointer Arithmetic

Pointer can be incremented & decremented



CASE 1

```
int age = 22;
int *ptr = &age;
ptr++;
```

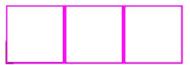
Pointer Arithmetic

CASE 2

```
float price = 20.00;
float *ptr = &price;
ptr++;
```

CASE 3

```
char star = '*';
char *ptr = ☆
ptr++;
```



Pointer Arithmetic

-	We c	an also	subtract	one poin	ter from	another
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- We can also compare 2 pointers

Array is a Pointer

```
int *ptr = &arr[0];
```

```
int *ptr = arr;
```

Traverse an Array

int aadhar[10];

int *ptr = &aadhar[0];



Arrays as Function Argument

```
//Function Declaration
void printNumbers (int arr[], int n)
OR
void printNumbers (int *arr, int n)

//Function Call
printNumbers(arr, n);
```

Multidimensional Arrays

```
2 D Arrays
int arr[][] = {{1, 2}, {3, 4}}; //Declare

//Access
arr[0][0]
arr[0][1]
arr[1][0]
arr[1][1]
```