



Lesson 12 Array

Array : An array is defined as the collection of similar type of data items

stored at contiguous memory locations.

Arrays are the derived data type in C programming language which can store the primitive type of data such as int, char, double, float, etc

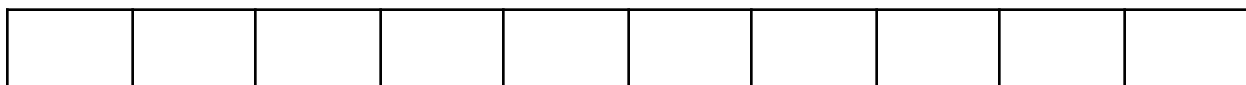
- **How to declare an array?**

```
int x;
```

```
//a space for a single value
```

```
int x [10];
```

- We declared an array of size 10



0 1 2 3 4 5 6 7 8 9

- An array is indexed from 0



- How to scan a number into an array x?

```
scanf("%d", &x[element's index]);
```

- How to scan a list of integers?

```
int i, x[10];
```

```
for (i = 0; i < 10; i++)
```

```
    scanf("%d", &x[i]);
```

- How to print the elements of an array?

```
int x[10], i;
```

```
for (i = 0; i < 10; i++)
```

```
    printf("%d ", x[i]);
```

Try to code yourself:

-- > click here: [Lesson 12 Array - Replit](#)