

## Data Structure : Array

- Array is same as list the difference between them is **array** allows similar type of elements (Datatype) while list takes any type of elements
- Upon array **all list operations** are possible
- Array is **homogenous**
- The Datatypes Array support are

Code	Type	Minimum Size (Bytes)
b	Int	1
B	Int	1
i	Signed int	2
I	Unsigned int	2
l	Signed long	4
L	Unsigned long	4
q	Signed long long	8
Q	Unsigned long long	8
f	float	4
d	Double float	8

- Lets see this with some examples

```
>>> import array
>>> ar1 = array.array('i',[10,20,30,40])
>>> ar1
array('i', [10, 20, 30, 40])
>>>
>>> s1 = b'abcdef'
>>>
>>> ar2 = array.array('b', s1)
>>> ar2
array('b', [97, 98, 99, 100, 101, 102])
>>>
>>> ar2[0]
97
>>> ar2[1:3]
array('b', [98, 99])
>>>
>>> ar2.append(103)
>>> ar2
array('b', [97, 98, 99, 100, 101, 102, 103])
>>> ar2.index(102)
5
>>> ar2.typecode
'b'
>>>
```