Array

```python
from array import array
arr = array('i',[1,3,4,5])
print(arr)
print(type(arr))
```

```
array('i', [1, 3, 4, 5])
<class 'array.array'>
```

```python
arr2 =array ('i',[2,5,4,5])
print(arr2)
print(type(arr2))
```

```
array('i', [2, 5, 4, 5])
<class 'array.array'>
```

```python
ar=("string")
print(ar)
```

```
string
```

```python
arr[2]
```

```
4
```

```python
arr[2] = 9
print(arr)
```

```
array('i', [1, 3, 9, 5])
```

```python
arr.insert(3,10)
print(arr)
```

```
array('i', [1, 3, 9, 10, 5])
```

```python
del(arr[3])

print(arr)
```

```
array('i', [1, 3, 9, 5])
```

```python
ar=([1,2,3,4,5])
for i in ar:
    print(i)
```

```
1
2
3
4
5
```

```python
for i in ar:
    if(i>3):
        print(i)
```

```
4
5
```

```python
ar.sort()
```

```python
ls=[1,7,4,3,2]
print(ls)
```

```
[1, 7, 4, 3, 2]
```

```python
ls=sorted(ls)
ls
```

```
[1, 2, 3, 4, 7]
```

```python
ls.insert(0,5)
```

```python
print(ls)
```

```
[5, 1, 2, 3, 4, 5, 7]
```

```python
for i in ls:
    if(i==5):
        print("true")
        break
    else:
        print("false")
        break
```

```
true
```

```python
i=20
if i in ls:
    print("true")
else:
    print("false")
```

```
false
```

```python
#function with 2 argument 1=search 2=array
#3=if the element is present print true or false
def ls(s,a):
    if s in a:
        print("true")
    else :
```

```python
        print("false")
    print(a)

a1=array('i',[1,2,4,5,18])
s=int(input("enter the search element"))
ls(s,a1)
```

```
enter the search element 5

true
array('i', [1, 2, 4, 5, 18])
```

```python
#write the function that willtrake 2 positional arg
#1 factore
# 2 th array
#sample input
#factore =2
#i=1,7,9,12
#out=2,14,18,24
def m(n,arr):
    for i in arr:
        a=i*n
        print(a)


a1=array('i',[1,5,3,7])
c=int(input("enter the factor number"))
m(c,a1)
```

```
enter the factor number 5

5
25
15
35
```

```python
def missing(n,arr):
    act_sum=(n*(n+1))/2
    print("Actual sum is",act_sum)
    gn_sum=sum(arr)
    print("Sum of the given arrray",gn_sum)
    return (act_sum-gn_sum)

myarray=array('i',[1,2,4,5,6])
missing(6,myarray)
```

```
Actual sum is 21.0
Sum of the given arrray 18

3.0
```

```python
def find(n,arr):
    act_sum=n
    print("Actual sum is",act_sum)
    gn_sum=sum(arr)
    print("Sum of the given arrray",gn_sum)
    return (act_sum-gn_sum)

myarray=array('i',[12,2,0])
find(24,myarray)
```

```
Actual sum is 24
Sum of the given arrray 14
```

```
10
```

```python
arr=[1,2,1,2,4]
arr=sorted(arr)
arr
```

```
[1, 1, 2, 2, 4]
```

```python
arr=set(arr)

arr
```

```
{1, 2, 4}
```

```python
arr=[0,1,12,1,12,3]
arr=sorted(arr)
arr
arr=set(arr)
arr
```

```
{0, 1, 3, 12}
```

```python
arr=[0,1,1,5,8,5,7,3,9,6,2,4]
arr=sorted(arr)
arr
arr=set(arr)
arr
```

```
{0, 1, 2, 3, 4, 5, 6, 7, 8, 9}
```

```python
n=134
```

```python
rev=0
while n!=0:
    rem = n%10
    rev=rev*10+rem
    n = n//10
print(rev)
```

```
431
```