

```

import array
arr=array.array('i',[])
ab=list(arr)
for i in range(5):
    a=int(input("enter value "))
    ab.append(a)
print(max(ab))

```

```

#merge two sorted array
import array
a = array.array('i', [1, 2, 3, 7])
b=array.array('i',[4,5,8,9])
c=array.array('i',[])
i=0
j=0
while(i<len(a) and j<len(b)):
    if(a[i]<b[j]):
        c.append(a[i])
        i+=1
    else:
        c.append(b[j])
        j+=1

while(i<len(a)):
    c.append(a[i])
    i+=1

while(j<len(b)):
    c.append(b[j])
    j+=1
print(c)

```

```

#negative numbers
import array
arr=array.array('i',[12,-1,-3,5,6,-9])
l=0
for i in range(len(arr)):
    if(arr[i]<0):

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l+=1
print(l)
```

```
#maximum elemeny froma array
import array
arr=array.array('i',[])
ab=list(arr)
for i in range(5):
    a=int(input("enter value "))
    ab.append(a)
print(max(ab))
```

```
#reversing array
import array
arr=array.array('i',[])
for i in range(7):
    a=int(input("enter numbers"))
    arr.append(a)
print(arr)
arr.reverse()
print(arr)
```

```
#pallindrome
import array
arr=array.array('i',[44,55,55,43])
is_pall=True
for i in range(len(arr)//2):
    if(arr[i]!=arr[len(arr)-1-i]):
        is_pall=False
        break
if is_pall:
    print("yup")
else:
    print("nop")
```

```

#searching number
import array
arr=array.array('i',[1,2,3,4,5])
a=int(input("enter value"))
c=0
for i in range(len(arr)):
    if (a==arr[i]):
        print(i)
        c+=1
        break
if(c==0):
    print(-1)

```

```

n=5
for i in range(n):
    for j in range(i,n):
        print(' ',end='')
    for k in range(n):
        print('*',end='')
    print()

```

```

n=5
for i in range(n):
    for j in range(i+1):
        print('*',end=' ')
    #for k in range(n):
    #    print(' ',end=' ')
    print()
for l in range(n-1,0,-1):
    for m in range(l):
        print('*',end=' ')
    #for o in range(i+1):
    #    print(' ',end=' ')
    print()

```

```

#diamond
n=3
for i in range(n):
    for j in range(i,n):
        print(' ',end='')
    for k in range(i+1):
        print('*',end='')
    for l in range(i):
        print('*',end='')
    print()
for m in range(n-1):
    for o in range(m+2):
        print(' ',end='')
    for p in range(n-m-1):
        print('*',end='')
    for q in range(n-m-2):
        print('*',end='')
    #for q in range()
    print()

```

#number pattern

```

n=5
for i in range(n):
    for j in range(1):
        if i%2==0:
            for m in range(n):
                print(m+1,end='')
            else:
                for k in range(n,0,-1):
                    print(k,end='')
    for l in range(n):
        print(' ',end='')
    print()

```

#0 or 1 pattern

```

n=5
for i in range(n):
    for j in range(1):
        if i==0 or i==n-1:

```

```
        for k in range(n):
            print('1',end='')
    else:
        print('1',end='')
        for l in range(1,n-1):
            print('0',end='')
        print('1',end='')
print()
```

```
#pattern printing
n=5
for i in range(1):
    for j in range(n):
        for k in range(j+1,n+1):
            print(k,end='')
        for l in range(j+1):
            print('5',end='')
        print()
print()
```