In [24]:
```
#list in python
#append()
#sort()
#bubble_sort()
l=[]
m = int(input("Enter the length of the list:"))
def demo(l):
    for i  in range(0,m):
        k=int(input("Enter elements:"))
        l.append(k)
    for j in range(m):
        for h in range(m):
            #compare
            if l[j]<l[h]:
                #swap
                temp=l[j]
                l[j]=l[h]
                l[h]=temp
demo(l)
print(l)
```

```
Enter the length of the list:4
Enter elements:45
Enter elements:89
Enter elements:23
Enter elements:56
[23, 45, 56, 89]
```

In [30]:
```
#deletion of items in alist
l=[1,2,3,4,5]
k=int(input("Enter position:"))
del l[k]
print(l)
```

```
Enter position:2
[1, 2, 4, 5]
```

In [4]:
```
#deletion algorithm without del[index]
# [0 1 2 3 4]the positions
j=[1,2,3,4,5]
p=len(j)
pos=int(input("Enter the position:"))
for i in range(pos,len(j)-1):
        print(i)
        j[i]=j[i+1]
del j[len(j)-1] #delete the last value
```

```
    print(j)


Enter the position:3
3
[1, 2, 3, 5]
```

In [ ]:

In [35]:
```
list=[1,2,3,4,5]
#delete the values that are odd
for i in range(len(list)-1):
    print(list[i]%2)
print(list)
```

```
1
0
1
0
[1, 2, 3, 4, 5]
```

In [22]:
```
#LIST AND THE RANDOM MODULE
#functions
    #choice(list_name)-->picks a random item from l
    #sample(list_name,number)-->picks a group of random items from l
    #shuffle(list_name)-->shuffles the items of l
from random import*
names=["a","b","c","d","e"]
#choice()
curr_player=choice(names)
print("the char chosen is:",curr_player)
#sample()
team=sample(names,2)
print("the team is:",team)
#shuffle()
shuffle(names)
print("the shuffle is:",names)
```

```
the char chosen is: c
the team is: ['c', 'a']
the shuffle is: ['c', 'd', 'e', 'b', 'a']
```

In [24]:
```
#split() method
    #it returns a list of words of a strng
    #the method assumes that the words are seperated by whitespace
s="Iam a kenyan citizen!"
sp=s.split()
```

```
      print(sp)#a list of characters will be created
```

```
['Iam', 'a', 'kenyan', 'citizen!']
```

In [27]:
```
#join()
    #this is the opposite of split
    # It is a string method that takes a list
    #of strings and joins them together into a single string
l=["A","B","C","D"]
j=""#remove the commas and rejoin the string to one
l=j.join(l)
print(l)
```

```
ABCD
```

In [3]:
```
#anagram
from random import*
w=input("Enter a word:")
#convert the word to a list
#use the list function
word=list(w)#convert to list
shuffle(word)#shuffle it
j=''#no space
word=j.join(word)#join the list
print(word)
```

```
Enter a word:GOD
DOG
```

In [ ]:
```
#LIST COMPREHENSION
```

In [ ]: