INPUT

```
# rearrange the values of alternate location (Ripunjay ,Manasvi)
a = eval(input("Enter a list : "))
print('Original list is : ',a)
s = len(a)
if s%2 != 0:
    s = s-1
for i in range(0,s,2) :
    print(i,i+1)
    a[i],a[i+1] = a[i+1],a[i]
print('list after swapping is :',a)
```

OUTPUT

```
Enter a list : [2, 5, 9, 14, 17, 8, 19, 16]
Original list is :  [2, 5, 9, 14, 17, 8, 19, 16]
0 1
2 3
4 5
6 7
list after swapping is : [5, 2, 14, 9, 8, 17, 16, 19]

Enter a list : [2,4,5,67,99]
Original list is :  [2, 4, 5, 67, 99]
0 1
2 3
list after sawpping is : [4, 2, 67, 5, 99]
```

INPUT

```
#  replace values of every element with its reverse(Ripunjay ,Manasvi)
a = eval(input('enter a list : '))
l = len(a)
for i in range(0,l) :
    n = a[i]
    m = 0
    while n!= 0 :
      r = n%10
      m = m*10 + r
      n = n//10
    a[i] = m
print(a)
```

OUTPUT

enter a list : [24,56,7889,34,23455]

[42, 65, 9887, 43, 55432]

enter a list : [1,3,5,7,99]
[1, 3, 5, 7, 99]

enter a list : [2,555,66,78,89,0]
[2, 555, 66, 87, 98, 0]

INPUT

```python
# concatenation of 2 lists(Ripunjay ,Manasvi)
l1 = eval(input("Enter a list : "))
l2 = eval(input("Enter another list : "))
l3 = []
if len(l1)==len(l2) :
    for i in range(0,len(l1)) :
        l3.append(l1[i])
        l3.append(l2[i])
    print("the required list is :",l3)
else :
    print("lists not of equal size !!")
```

OUTPUT

Enter a list : [1,3,5,7,9]
Enter another list : [2,4,6,8,10]
the required list is : [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

Enter a list : [2,5,7,9,8,113,55]
Enter another list : [31,6,8,99,1111]
lists not of equal size !!

INPUT

```
#  list in ascending order using bubble sort (Ripunjay ,Manasvi)
a = eval(input('enter a list :'))
l = len(a)

for i in range(0,l-1) :

    for j in range(0,l-i-1) :

        if a[j] > a[j+1] :

            a[j],a[j+1] = a[j+1],a[j]

print('list in ascending order using bubble sort is :',a)
```

OUTPUT

```
enter a list : [99,37,1156,23,88,87,55,100]
list in ascending order after bubble sort is : [23, 37, 55, 87, 88, 99, 100, 1156]

enter a list :[1,2,0,55,77,83,11114,34]
list in ascending order after bubble sort is : [0, 1, 2, 34, 55, 77, 83, 11114]
```

INPUT

```
# list after removing all odd numbers(Ripunjay ,Manasvi)
l = eval(input("enter a list :"))
size = len(l)
i = 0
print("original list is :",l)
while i < size :
    if l[i]%2!= 0:
        while True :
            if l[i]%2 != 0:
                del(l[i])
                size = size -1
                if i >= size:
                    break
            else :
                break
        i = i+1
    else :
        i = i+1

print("new list is :",l)
```

OUTPUT

```
enter a list : [2,3,5,7,9,10,11]
original list is : [2, 3, 5, 7, 9, 10, 11]
new list is : [2, 10]

enter a list : [20,10,50,76,88,90,100]
original list is : [20, 10, 50, 76, 88, 90, 100]
new list is : [20, 10, 50, 76, 88, 90, 100]

enter a list : [1,5,7,9,99,1111,33]
original list is : [1, 5, 7, 9, 99, 1111, 33]
new list is : []
```

INPUT

```
# insertion sort in ascending order(Ripunjay ,Manasvi)
a = eval(input("enter a list of numbers :"))
l = len(a)
for i in range(1,l) :
    temp = a[i]
    j = i - 1
    while a[j] > temp and j >= 0 :
        a[j+1] = a[j]
        j -= 1
    a[j+1] = temp
print("list in ascending order is :",a)
```

OUTPUT

enter a list of numbers : [2,99,1,0,1118,77,66,12,45]
list in ascending order is : [0, 1, 2, 12, 45, 66, 77, 99, 1118]

enter a list of numbers :[0]
list in ascending order is : [0]

enter a list of numbers :[100,100,100,1000]
list in ascending order is : [100, 100, 100, 1000]