

```
inp=int(input())
inp1=int(input())
print('sum:',inp+inp1)
```

```
5
5
sum: 10
```

```
rad=int(input())
import math
```

```
area=math.pi * rad**2
print(area)
```

```
4
50.26548245743669
```

```
inp=int(input())
inp1=int(input())
```

```
if inp>inp1:
    print('first is greater')
else:
    print('secound is greater')
```

```
↳ -33
   -3
   secound is greater
```

```
inp1=int(input())
inp2=int(input())
result=0
if inp1>inp2:
    result=inp1-inp2
else:
    result=inp2-inp1
```

```
print(result)
```

```
5
5
0
```

```
inp=int(input())
```

```
if inp%2==0:
    print('even')
else:
    print('odd')
```

```
7
odd
```

```
inp=int(input())

if inp%2==0 or inp%5==0:
    print(inp)
else:
    print('not a MULTIPLE')

    3
    not a MULTIPLE
```

```
inp=int(input())

hours=inp//3600
rem=inp%3600
min=rem//60
sec=rem%60
print(hours,min,sec)
```

```
10000
2 46 40
```

```
inp=int(input())
if 0>inp>168:
    print('invalid')
elif inp<=40:
    print(200*inp)
elif inp>40:
    print((inp-40)*300+8000)

-30
-6000
```

```
inp=int(input())

if inp<100:
    print(3000-125*(inp)**2)
else:
    print(12000/(4+(inp**2/14900)))

3
1875
```

```
inp=int(input())

if inp>100 or inp<0 :
    print('invalid')
elif 90<inp<100:
    print("a")
elif 80<inp<89:
    print("b")
```

```
#and so on
```

```
95
```

```
cg=float(input())
credit=int(input())
```

```
if credit>30 and cg>=3.8 :
    if 3.80<cg<3.89:
        print('25')
    elif 3.90<cg<3.94:
        print("50")
else:
    print('not eligible')
```

```
3.93
78
50
```

```
for i in range(24,-7,-6):
    if i==6:
        print(i)
    else:
        print(i,end=',')
```

```
24,18,12,6,0,-6
```

```
for i in range(18,64,9):
    if i==63:
        print(i)
    else:
        print(i,end=',')
```

```
18,27,36,45,54,63
```

```
carname=input()
number=int(input())
```

```
for i in range(number):
    print(carname)
```

```
fuclyou
5
fuclyou
fuclyou
fuclyou
fuclyou
fuclyou
```

```
count=0
for i in range(601):
    if i%7==0 and i%9==0:
```

```
count=count+i
print(count)
```

```
count=0
for i in range(601):
    if
        if i%7==0 or i%9==0:
            count=count+i
print(count)
```

```
for i in range(10,50):
    if i%2 !=0:
        print(i,end=' ')
```

11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49

```
inp=int(input())
sum=0
for i in range (inp+1):
    if i%2!=0:
        sum=sum+i**2
    elif i%2==0:
        sum=sum-i**2
print(sum)
```

5  
15

```
sum=0
count=0
for i in range(0,10):
    inp=int(input())

    if i%2!=0:
        sum=sum+i
        count=count+1
    avarage=sum/count
print(avarage)
```

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
5.0

```
inp=int(input())
sum=0
for i in range(inp):
    if i%7==0:
        sum=sum+i
print(sum)
```

50  
196

```
sum=0
for i in range(5):
    inp=int(input())
    sum=sum+inp
    print('out:',sum)
```

1  
out: 1  
2  
out: 3  
3  
out: 6  
4  
out: 10  
5  
out: 15

```
number=32768
```

```
while number>0:
    rem=number%10
    if rem==3:
        print(rem)
    else:
        print(rem,end=',')
    number=number//10
```

8,6,7,2,3

```
inp=int(input())
count=0
while inp>0:
    count=count+1
    inp=inp//10
print(count)
```

32768  
5

```
inp=int(input())
count=0
for i in range(1,inp+1):
    if inp%i==0:
```

```
count=count+1
print(count)
```

```
121
3
```

```
inp=int(input())
sum=0
for i in range(1,inp):
    if inp%i==0:
        sum=sum+i

if sum==inp:
    print('Perfect')

else:
    print('not')
```

```
33
not
```

```
inp=int(input())
count=0
for i in range(1,inp+1):
    if inp%i==0:
        count=count+1

if count==2:
    print('prime')
else:
    print('not prime')
```

```
6
not prime
```

```
quantity = int(input(""))
count = 0
max = 0
min = 0
sum = 0
```

```
while count<quantity:
    num = int(input(""))
    sum+=num
    if num>max:
        max=num
    elif num<min:
        min=num
    count+=1
```

```
average = sum/count
print('Maximum:',max,'Minimum:',min,'Average is:',average)
```

```
6
5
10
4
-1
-100
1
Maximum: 10 Minimum: -100 Average is: -13.5
```

```
inp=int(input())
for i in range(1,inp+1):
    for j in range(1,inp+1):          #imp**
        print("+",end='')
    print()
```

```
5
+++++
+++++
+++++
+++++
+++++
```

```
row=int(input())
column=int(input())
for x in range(1,row+1):
    for y in range(1,column+1):      #use thisimp***
        print(y,end=" ")
    print(" ")
```

```
4
4
1234
1234
1234
1234
```

```
slope = int(input(""))

for i in range(1, slope+1):
    for j in range(1, i+1):          #imp**
        print(j, end=" ")
    print("")
```

```
5
1
12
123
1234
12345
```

```
inp=input()
len1=len(inp)
rev=inp[-1::-1]
print(rev)
```

```
CSE110
011ESC
```

```
inp=input()
num=int(input())
hold=inp[:num+1]
rev=hold[-1::-1]
print(rev+inp[num+1:])
```

```
12345
2
32145
```

```
inp=input()
len1=len(inp)
d=False

for i in range(len1):
    if inp[i]=='0' or inp[i]=='1':
        d=True
    else:
        d=False

if d==True:
    print("b")
else:
    print('non b')
```

```
101010110101010110
b
```

```
string=input()
if len(string)<4:
    print(string)

elif string.endswith('er'):
    print(string[:-2]+'est')
elif string.endswith('est'):
    print(string)
else:
    print(string+'er')
```



```
abc
abc
```

```
inp=input()
len1=len(inp)

for i in range(1,len1+1):
    for j in range(i):
        print(inp[j],end='')
    print()
```

```
bangla
b
ba
ban
bang
bangl
bangla
```

```
inp=input()
len1=len(inp)

for i in range(len1):
    asc=ord(inp[i])
    print(inp[i],':',asc)          #imp**
```

```
Programming
P : 80
r : 114
o : 111
g : 103
r : 114
a : 97
m : 109
m : 109
i : 105
n : 110
g : 103
```

```
inp=input()

for i in inp:
    if i=='a':
        print('z')

    else:
        asc=ord(i)
        new=asc+1
        ascc=chr(new)
        print(ascc,end='')
```

```
the cow
uif!dpx
```

```
inp=input()
new=''
for i in inp:
    if i not in new:
        new=new+i
print(new)
```

```
inp=input()
new=''
len1=len(inp)
for i in range(len1):
    if i%2==0:
        pass
    else:
        convert=chr(ord(inp[i])-32)
        new=new+convert
print(new)
```

```
string
TIG
```

```
inp=input()
new=''
len1=len(inp)
```

```
for i in inp:
    if i not in new:
        new=new+i
print(new)
```

```
AAABBBBCDDBBECE
ABCDE
```

```
9
letter=input('enter word:')
```

```
s='' #imp**
for i in letter:
    if s==' ' or i!= s[len(s)-1]:
        s=s+i
print(s)
```

```
enter word:AAABBBBCDDBBECE
ABCD BECE
```

```
newlist=[]
for i in range(5):
    inp=int(input())
```

```
newlist.append(inp)
print(newlist)
```

```
3
[3]
5
[3, 5]
34
[3, 5, 34]
-11
[3, 5, 34, -11]
0
[3, 5, 34, -11, 0]
```

```
inp=input()
newlist=inp.split(',')
length=len(newlist)
```

```
for i in range (length):
    if length>3:
        x= newlist[2:length-2]
```

```
#imp***
```

```
    else:
        x='not possible'
    for j in range(0,len(x)):
        x[j]=int(x[j])
```

```
print(x)
```

```
[3, 5, 34, -11, 0]
[34]
```

```
newlist=[]
for i in range(5):
    inp=int(input())
    newlist.append(inp)
print(newlist)
rev=newlist[-1::-1]
```

```
for i in rev:
    print(i)
```

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

```

inp=int(input('total num:'))
l1=[]
m1=[]
for i in range(inp):
    inp1=int(input())
    l1.append(inp1)
print(l1)
for i in l1:
    m1.append(i**2)
print(m1)

```

```

total num:4
3
5
1
6
[3, 5, 1, 6]
[9, 25, 1, 36]

```

```
givenlist=["hey", "there", "", "what's", "", "up", "", "?"]
```

```

newlist=[]
for i in givenlist:
    if i!= "":
        newlist.append(i)
print(newlist)

```

```
#rev****
```

```
['hey', 'there', "what's", 'up', '?']
```

```

list_1 = [1, 4, 7, 5]
list_2 = [6, 1, 3, 9]

```

```

res = list_1[::-1] + list_2
print(res)

```

```
[1, 4, 7, 5, 6, 1, 3, 9]
```

```

list_one = [1, 2, 3, 4, 5, 6, 7, 8, 9]
list_two = [10, 11, 12, -13, -14, -15, -16]
final=[]

```

```

for i in list_one:
    if i%2==0:
        final.append(i)
for i in list_two:
    if i%2==0:
        final.append(i)
print(final)

```

```
[2, 4, 6, 8, 10, 12, -14, -16]
```

```

n=input()
list1=[]
new_list=[]
length=len(n)
for i in n:
    if i==' ' or i==",":
        pass
    else:
        list1.append(int(i))
for i in list1:
    if i not in new_list:
        new_list.append(i)
print(new_list)

```

```

0, 0, 1, 2, 3, 4, 4, 5, 6, 6, 6, 7, 8, 9, 4, 4
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

```

```

list_one = [1, 4, 3, 2, 6]
list_two = [5, 6, 9, 8, 7]
m=0
for i in list_one:
    if i in list_two:
        m+=1
    else:
        m=0
if m==0:
    print("False")
else:
    print("True")

```

```

True

```

```

a_tuple = ("The Institute", ("Best Mystery & Thriller", "The Silent Patient", 68821), 7571
[1, 2, 3, 400, 5, 6, 7], ("Best Fiction", "The Testaments", 98291))

print(a_tuple[3][3])

```

```

400

```

```

gtuple=(10, 20, 24, 25, 26, 35, 70)
len1=len(gtuple)
print(gtuple[2:len1-2])

```

```

(24, 25, 26)

```

```

book_info = (
("Best Mystery & Thriller","The Silent Patient",68,821),
("Best Horror","The Institute",75,717),
("Best History & Biography","The five",31,783 ),
("Best Fiction","The Testaments",98,291)
)

```

```

print(len(book_info))
for i in book_info:
    print(i)

4
('Best Mystery & Thriller', 'The Silent Patient', 68, 821)
('Best Horror', 'The Institute', 75, 717)
('Best History & Biography', 'The five', 31, 783)
('Best Fiction', 'The Testaments', 98, 291)

book_info = (
("Best Mystery & Thriller","The Silent Patient",68821),
("Best Horror","The Institute",75717),
("Best History & Biography","The five",31783 ),
("Best Fiction","The Testaments",98291)
)

#imp***

len1=len(book_info)

for i in range(len1):
    print('{} won the "{}" catagory with {} votes.'.format(book_info[i][1],book_info[i][0],

        The Silent Patient won the "Best Mystery & Thriller" catagory with 68821 votes.
        The Institute won the "Best Horror" catagory with 75717 votes.
        The five won the "Best History & Biography" catagory with 31783 votes.
        The Testaments won the "Best Fiction" catagory with 98291 votes.

Giventuple=(10, 8, 5, 2, 10, 15, 10, 8, 5, 8, 8, 2)
inp=int(input())
count=0
for i in Giventuple:
    if i==inp:
        count+=1
print(count)

8
4

Giventuple=('a', 'b', 'c', 'd', 'e', 'f', 'g', 'h')
list1=list(Giventuple)
rev=list1[-1::-1]
tup=tuple(rev)
print(tup)

('h', 'g', 'f', 'e', 'd', 'c', 'b', 'a')

d1={'Harry':15, 'Draco':8, 'Nevil':19}
d2={'Ginie':18, 'Luna': 14}
d3={'Harry':15, 'Draco':8, 'Nevil':19}

```

```
d1.update(d2)
print()

d1={'Jon': 100, 'Dan':200, 'Rob':30, 'Ned':110}

sum=0
count=0
for values in d1.values():
    sum=sum+values
    count=count+1
print(sum/count)

110.0
```

```
exam_marks= {'Cierra Vega': 175, 'Alden Cantrell': 200, 'Kierra Gentry': 165, 'Pierre Cox'
inp=int(input())
new={}
for key,value in exam_marks.items():
    if value>inp:
        new[key]=value
print(new)

170
{'Cierra Vega': 175, 'Alden Cantrell': 200, 'Pierre Cox': 190}
```

```
dic={'sci fi': 12, 'mystery': 15, 'horror': 8, 'mythology': 10, 'young_adult': 4, 'adventu
max=0
gen={}
for key,value in dic.items():
    if value>max:
        max=value
        gen=key
print(max,gen)

15 mystery
```

```
inp='python programming is fun'
nword=''
for i in inp:
    if i!=' ':
        nword=nword+i
newdic={}

for i in nword:
    if i not in newdic:
        newdic[i]=1
    else:
        newdic[i]+=1
print(newdic)
```

```
{ 'p': 2, 'y': 1, 't': 1, 'h': 1, 'o': 2, 'n': 3, 'r': 2, 'g': 2, 'a': 1, 'm': 2, 'i'
```

```
dict_1 = {'A': [1, 2, 3], 'b': ['1', '2'], 'c': [4, 5, 6, 7]}
sum=0

for value in dict_1.values():
    for i in value:
        sum=sum+1

print(sum)
```

9

```
list_1 = [("a", 1), ("b", 2), ("a", 3), ("b", 1), ("a", 2), ("c", 1)]

list_a=[]
list_b=[]
list_c=[]

for i in list_1:
    if i[0]=='a':
        list_a.append(i[1])
    elif i[0]=='b':
        list_b.append(i[1])
    elif i[0]=='c':
        list_c.append(i[1])

new_dict={'a':list_a,'b':list_b,'c':list_c}
print(new_dict)
```

#imp\*\*

```
def even_cheaker(inp):
    inp=int(input())

    if inp%2==0:
        print('Even')
    else:
        print('odd')
even_cheaker(inp)
```

9

odd

```
def fibonacci(inp):
    inp=int(input())
    a=0
    b=1
    print(a,b,end=' ')
    while(a+b)<=inp:
        c=a+b
        print(c,end=' ')
        a=b
```



b=c

```
fibonacci(inp)
```

```
10
0 1 1 2 3 5 8
```

```
inp=int(input('Enter:'))
```

```
def foo_moo(inp):
```

```
    if inp%2==0:
        print('Foo')
    elif inp%3==0:
        print("Moo")
    elif inp%2==0 and inp%3==0 :
        print("FooMoo")
    else:
        print('Boo')
```

```
foo_moo(inp)
```

```
def function_name(inp):
```

```
    u=0
    inp=input()
    for i in inp:
        if i.isupper():
            u=u+1
```

```
    print(u)
```

```
function_name(inp)
```

```
The quick Sand Man
3
```

```
age=int(input('Enter age:'))
```

```
salary=float(input('enter salary:'))
```

```
designation=input('Enter designation:')
```

```
def calculate_tax(age,salary,designation):
```

```
    tax=0
    if age<18 or designation == 'president' or salary<10000 :
        tax=0
    elif salary>=10000 and salary<=20000:
        tax=salary*(5/100)
    elif salary>20000:
        tax=salary*(10/100)
    return tax
```

```
calculate_tax(age,salary,designation)
```

```
inp=int(input('Enter:'))
def number_of_days(inp):
    years=inp//365
    rem=inp%365
    month=rem//30
    days=rem%30

    print(years,'years',month,'months',days,'days')
number_of_days(inp)
```

```
def show_palindrome(inp):
    inp=int(input())

    for i in range(1,inp+1):
        a=print(i,end='')
    for i in range(inp-1,0,-1) :
        b=print(i,end='')

show_palindrome(inp
)
```

```
5
123454321
```

```
def area_circumference_generator(r):
    import math
    x= 2 * math.pi * r
    y= math.pi * r**2
    a= (y,x)
    return a
n= area_circumference_generator(2.5)
#area_circumference_generator(2.5)
print(n)
b,c= n
print(f"Area of the circle is {b} and circumference is {c}")
```

```
def make_square(a_tuple):
    start,end=a_tuple
    a_dict={}

    for i in range(start,end+1):
        key=i
        value=i**2
        a_dict[key]=value
    return a_dict
```

```
make_square((1,3))
```

```
def rem_duplicate(b_tuple):
    a_list=list(b_tuple)
    new_list=[]

    for i in a_list:
        if i not in new_list:
            new_list.append(i)

    new_tuple=tuple(new_list)
    return new_tuple
rem_duplicate((1,1,1,1,2,2,2,2,2,3,3,3,3,3,4,4,4,4,4))
```

```
def function_name(a_list):

    new_list=[]
    for i in a_list:
        if new_list.count(i)<2:
            new_list.append(i)          #imp***
    return new_list
```

```
function_name([1, 2, 3, 3, 3, 3, 4, 5, 8, 8])
```

```
operator=input("op:")
first_num=int(input())
second_num=int(input())
```

```
def function_name(operator,first_num,Second_num):
    if operator=='+':
        result= first_num + second_num
        return result
    elif operator=='-':
        result= first_num - second_num
        return result
    elif operator=='*':
        result= first_num * second_num
        return result
    elif operator=='/':
        result= first_num / second_num
        return result
```

```
function_name(operator,first_num,second_num)
```

```
def function_name(words,pos):
    new_word=''
    first = words[0]
    extra_word=''
    final_word=''

    for i in range(1,len(words)):
        if i%pos !=0:
            new_word=new_word+words[i]          #imp*****
```

```
    else:
        extra_word=extra_word+words[i]
    final_word=first+new_word + extra_word
    return final_word

output=function_name("I love programming.",3)
print(output)
```

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