def peri (l=1,b=1):

p=2\*(l+b)

a=l\*b

return(p,a)

le=int(input("Enter the Length of the Rectangle"))

be=int(input("Enter the Breadth of the Rectangle"))

p,a=peri(le,be)

print("Perimeter = ",p,"Area : ",a)

#n=0

def fib(x,y,z):

# global n

if (z>0):

c=x+y

print(c,end=",")

z-=1

return fib(y,c,z)

else:

return 0

n=int(input("Enter Number of elements of the fibonacci series : "))

print('0')

print('1')

fib(0,1,n-2)

def mult(n):

global ch

if (n<=ch):

print("7 \* ",n,"= ",7\*n)

return mult(n+1)

else:

return 0

ch=int(input('Enter the number of desired multiples of 7 : '))

mult(1)

"""

Enter the number of desired multiples of 7 : 10

7 \* 1 = 7

7 \* 2 = 14

7 \* 3 = 21

7 \* 4 = 28

7 \* 5 = 35

7 \* 6 = 42

7 \* 7 = 49

7 \* 8 = 56

7 \* 9 = 63

7 \* 10 = 70

"""

def pat(n):

print("\*"\*n)

ch=int(input("Enter The Number OF lines Of the Pattern: "))

for i in range(1,ch+1):

pat(i)

"""

Enter The Number OF lines Of the Pattern: 5

\*

\*\*

\*\*\*

\*\*\*\*

\*\*\*\*\*

"""

sum=0

prod=1

def cal(n):

global sum,prod

sum=sum+n

prod\*=n

ctr="y"

while (ctr=="y"):

op=input("Do you want to Continue(y/n) : ")

if (op=='y'):

a=int(input("Enter a Number : "))

cal(a)

else:

ctr="n"

break

print("Product of the Entered Numbers : ",prod)

print("Sum of the Entered Numbers : ",sum)

vl=['a','e','i','o','u','A','E','I','O','U']

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

cap=0

vo=0

sp=0

nu=0

def check(n):

global cap,vo,sp,nu

if ((ord(n)>=65 and ord(n)<=90) or (ord(n)>=97 and ord(n)<=122)):

if(ord(n)>=65 and ord(n)<=90):

cap+=1

if(n in vl):

vo+=1

elif(n in nl):

nu+=1

else:

sp+=1

st=input("Enter a String : ")

for i in range(len(st)):

a=st[i]

check(a)

print("Numbers : ",nu)

print("Vowels : ",vo)

print("Capital Letters : ",cap)

print("Special Characters : ",sp)