#To display longest length word in string

a=input("Enter the string :")

b=a.split()

c=0

d=0

for i in range(len(b)):

    if(c<len(b[i])):

        c=len(b[i])

        d=i

print("The word with longest length from",b,"is",b[d],"it's length is",len(b[d]))

#frequency of occurance of particular character in string

str1=input("Enter the string :")

str2=str1.split()

char=input("Enter the chararcter :")

count=0

for i in (str2):

    if i in (char):

        count+=1

print("Character ",char," is present ",count," times in string")

#to check weather the string is palindrome or not

a=input("Eneter the string :")

b=a[::-1]

if(a==b):

    print("Given String is palindrome.....")

else:

    print("Given String is not palindrome.......")

# display the first occurence of the substring

str=input("Enter the string :")

substr=input("Enter the particular part is string :")

index=0

m=0

for i in range(len(str)):

    if(substr[m]==str[i]):

        m=m+1

        if(m==len(substr)):

            index=i-(len(substr)-1)

            break

else:

    m=0

print(substr," is at index ",index+1," in the given string")

#count thee occuarance of each word in string

str=input("Enter the string :")

list1=str.split()

list2=set(list1)

list3=[]

list3=list(list2)

list4=[]

list5=[]

for i in range(len(list3)):

    count=0

    for j in range(len(list1)):

        if(list3[i]==list1[j]):

            count+=1

        list4=list3[i],count

    list5.append(list4)

print(list5)