#To display word with th longest length

str1=input("Enter the string")

list1=str1.split()

m=0

word=0

print(list1)

for i in range (len(list1)):

    len(list1[i])

    if m<len(list1[i]):

        m=len(list1[i])

        word=i

print("The word with longest length ",list1[word])

# To determine the frequency of ocurrance of particular character in the string

str1=input("Enter the string ")

char=input("Enter character ")

str1=str1.split()

counter=0

for i in range(len(str1)):

    if char==str1[i]:

        counter+=1

print("Charactr %s is present %d times in string %s",char,counter,str1)

#To count the occurences of each word in a given string

str1=input("Enter input")

list1= str1.split()

list2=set(list1)         #Delete duplicates

list3=list(list2)        #convert set again into List

print(list1)

print(list3)

list4=[]

list5=[]

counter=0

for i in range(len(list3)):

    counter=0

    for j in range(len(list1)):

        if list3[i]==list1[j]:

            counter+=1

    list4=list3[i],counter

    list5.append(list4)

print("\n",list5)

# To check whether given string is palindrome or not

str2=input("Enter string")

lenstr2=len(str2)

j=lenstr2-1

print(lenstr2)

flag=0

for i in range (int (lenstr2/2+1)):

    if (str2[i]==str2[j]):

        flag=1

    else:

        break

    j=-1

if(flag==1):

    print("\n It is palindrome")

else:

    print("\n It is not palindrome")

#To display index of frist appearance of the substring

str1=input("Enter string")

sub1=input("Enter substring ")

sublen=len(sub1)

index1=0

j=0

for i in range(len(str1)):

        if sub1[j]==str1[i]:

            flag=1

            print(sub1[j],i,j)

            j=j+1

            if j==sublen:

                index1=i-(sublen-1)

                break

        else:

            flag=0

            j=0

print("substring index :", index1)