class CharacterOccurrence

{

public static void main(String[] args)

{

String st="we are reading occurrances of characters";

char ch[]=st.toCharArray();

int n=ch.length;

for(int i=0;i<n;i++)

{

int count=1;

for(int j=i+1;j<n;j++)

{

if(ch[i]==ch[j])

{

count++;

int k=j;

while(k<n-1)

{

ch[k]=ch[k+1];

k++;

}

n--;

j--;

}

}

System.out.println(ch[i]+" occurred "+count+" times");

}

}

}

//to count how many uppercase, lowercase,digit,vowels,consonents, special symbol in giveen sentence

import java.util.Scanner;

class Count

{

public static void main(String[] args)

{

int uc=0,lc=0,dc=0,vc=0,cc=0,sc=0;

Scanner s=new Scanner(System.in);

System.out.println("Enter the String:");

String st=s.nextLine();

char ch[]=st.toCharArray();

for(int i=0;i<ch.length;i++)

{

if(ch[i]>='A' && ch[i]<='Z')

{

uc++;

if(ch[i]=='A' || ch[i]=='E' || ch[i]=='I' || ch[i]=='O' || ch[i]=='U')

vc++;

else

cc++;

}

else if(ch[i]>='a' && ch[i]<='z')

{

lc++;

if(ch[i]=='a' || ch[i]=='e' || ch[i]=='i' || ch[i]=='o' || ch[i]=='u')

vc++;

else

cc++;

}

else if(ch[i]>='0' && ch[i]<='9')

dc++;

else

sc++;

}

System.out.println("uppercase:"+uc);

System.out.println("lowercase:"+lc);

System.out.println("vowels:"+vc);

System.out.println("consonants:"+cc);

System.out.println("digits:"+dc);

System.out.println("special characters:"+sc);

}

}

//to print number of characters in each word in sentence

import java.util.Scanner;

class CharCount

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter your sentence:");

String st=sc.nextLine();

char ch[]=st.toCharArray();

st="";

for (int i=0;i<ch.length ;i++ )

{

int c=0;

while (i<ch.length && ch[i]!=' ')

{

st=st+ch[i];

i++;

c++;

}

st=st+c;

//System.out.println(st);

}

System.out.println(st);

}

}

//display first letter as capital in given sentence

import java.util.Scanner;

class UpperCase

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter your sentence:");

String st=sc.nextLine();

char ch[]=st.toCharArray();

st="";

for (int i=0;i<ch.length ;i++ )

{

if (i==0 && ch[i]!=' ' || ch[i]!=' ' && ch[i-1]==' ')

{

if(ch[i]>='a' && ch[i]<='z')

ch[i]=(char) (ch[i]-32);

}

else if (ch[i]>='A' && ch[i]<='Z')

{

ch[i]=(char) (ch[i]+32);

}

st=st+ch[i];

}

System.out.println(st);

}

}

//count number of words in sentence

import java.util.Scanner;

class WordCount

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter your sentence:");

String st=sc.nextLine();

char ch[]=st.toCharArray();

int count=0;

for (int i=0;i<ch.length ;i++ )

{

if(i==0 && ch[i]!=' ' || ch[i]!=' ' && ch[i-1]==' ')

count++;

}

System.out.println("Number of words in sentence:"+count);

}

}

//reverse the sentence

import java.util.Scanner;

class ReverseSentence

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter your sentence:");

String st=sc.nextLine();

char ch[]=st.toCharArray();

st="";

for (int i=ch.length-1 ; i>=0 ; i-- )

{

int k=i;

while (i>=0 && ch[i]!=' ')

{

i--;

}

int j=i+1;

while (j<=k)

{

st=st+ch[j];

j++;

}

if(i>=0)

st=st+ch[i];

}

System.out.println(st);

}

}

//reverse the words in the sentence

import java.util.Scanner;

class ReverseWord

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter your sentence:");

String st=sc.nextLine();

char ch[]=st.toCharArray();

st="";

for (int i=0;i<ch.length ;i++ )

{

int k=i;

while (i<ch.length && ch[i]!=' ')

{

i++;

}

int j=i-1;

while (j>=k)

{

st=st+ch[j];

j--;

}

if (i<ch.length)

{

st=st+ch[i];

}

}

System.out.println(st);

}

}

class CountDays

{

static int countDays(int dd,int mm,int yy)

{

int m[]={0,31,28,31,30,31,30,31,31,30,31,30,31};

int day=0;

day=365\*(yy-1);

day=day+((yy-1)/4-(yy-1)/100+(yy-1)/400);

for (int i=1;i<mm ;i++ )

{

day=day+m[i];

}

day=day+dd;

if((yy%4==0 && yy%100!=0 || yy%400==0)&&mm>2)

day++;

return day;

}

public static void main(String args[])

{

int d1=countDays(22,12,2016);

int d2=countDays(18,9,1989);

System.out.println(d1-d2);

}

}

//finding how many times each sub string is present

import java.util.Scanner;

class CountSubString

{

static int countWord(String st1,String st2)

{

char[] c1=st1.toCharArray();

char[] c2=st2.toCharArray();

int count=0;

for(int i=0;i<c1.length;i++)

{

int in=-1;

int k=i;

//int i++;

int j=0;

while(k<c1.length && j<c2.length && c1[k]==c2[j])

//while(i<c1.length && j<c2.length && c1[i]==c2[j])

{

k++;

//i++;

j++;

}

if(j==c2.length && (i==0 || c1[i-1]==' ') && (k==c1.length || c1[k]==' '))

{

count++;

}

//i--;

}

return count;

//return in;

}

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter the main string:");

String ms=sc.nextLine();

System.out.println("Enter the sub string:");

String ss=sc.nextLine();

int rs=countWord(ms,ss);

if(rs>0)

System.out.println("yes found "+rs+" times");

else

System.out.println("not found");

}

}

import java.util.Scanner;

class FindAnagram

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter first sentence:");

String st1=sc.nextLine();

System.out.println("Enter second sentence:");

String st2=sc.nextLine();

Anagram a1=new Anagram();

boolean res=a1.isAnagram(st1,st2);

if (res)

System.out.println("Strings are anagram");

else

System.out.println("Strings are not anagram");

}

}

class Anagram

{

boolean isAnagram(String s1,String s2)

{

s1=removeSpace(s1);

s2=removeSpace(s2);

if(s1.length()!=s2.length())

return false;

s1=toLowerCase(s1);

s2=toLowerCase(s2);

boolean b=check(s1,s2);

return b;

}

boolean check(String s1,String s2)

{

char ch1[]=s1.toCharArray();

char ch2[]=s2.toCharArray();

ch1=sort(ch1);

ch2=sort(ch2);

for (int i=0;i<ch1.length ;i++ )

{

if(ch1[i]!=ch2[i])

return false;

}

return true;

}

char[] sort(char ch[])

{

for (int i=0;i<ch.length ;i++ )

{

for (int j=i+1;j<ch.length ;j++ )

{

if(ch[i]>ch[j])

{

char temp=ch[i];

ch[i]=ch[j];

ch[j]=temp;

}

}

}

return ch;

}

String removeSpace(String st)

{

char ch[]=st.toCharArray();

st="";

for (int i=0;i<ch.length ;i++ )

{

if(ch[i]!=' ')

st=st+ch[i];

}

return st;

}

String toLowerCase(String st)

{

char ch[]=st.toCharArray();

for (int i=0;i<ch.length ;i++ )

{

if(ch[i]>=65 && ch[i]<=91)

ch[i]=(char) (ch[i]+32);

}

st=new String(ch);

return st;

}

}