//1.Reverse the String

import java.util.\*;

public class reversedemo{

public static void main(String[] args){

Scanner obj=new Scanner(System.in);

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

String s=obj.next();

char c[]=s.toCharArray();

String newstr="";

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

{

newstr+=c[i];

}

System.out.println("String After Reverse:"+newstr);

}

}

//2.Palindrome

import java.util.\*;

public class palindraomedemo{

public static void main(String[] args){

Scanner obj=new Scanner(System.in);

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

String s=obj.next();

char c[]=s.toCharArray();

String newstr="";

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

{

newstr+=c[i];

}

System.out.println("String After Reverse:"+newstr);

if(s.equals(newstr))

{

System.out.println("Palindrme");

}

else

{

System.out.println("Not Palindrome");

}

}

}

//3.Count the Vowels and Consonents

import java.util.\*;

public class vowcountdemo{

public static void main(String[] args){

Scanner obj=new Scanner(System.in);

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

String s=obj.next();

char c[]=s.toCharArray();

int vowels=0,consonents=0;

for(char temp:c)

{

if(temp>='a' && temp<='z')

{

if(temp=='a'||temp=='e'||temp=='i'||temp=='o'||temp=='u')

{

vowels++;

}

else

{

consonents++;

}

}

}

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

System.out.println("Consonents:"+consonents);

}

}

//4.Count the Occurence of Word

public class occurencedemo{

public static void main(String[] args){

String s="hello way how way are way you way";

String a="way";

int i=s.indexOf(a);

int count=0;

while(i>=0)

{

i=s.indexOf(a,i+1);

count++;

}

System.out.println("Word Occurence Count:"+count);

}

}

//5.Count No of Words

import java.util.\*;

public class worddemo{

public static void main(String[] args){

Scanner obj=new Scanner(System.in);

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

String s=obj.nextLine();

String str[]=s.split(" ");

System.out.println("No.of Words:"+str.length);

}

}

//6.Sorting

import java.util.\*;

public class sortdemo{

public static void main(String[] args){

Scanner obj=new Scanner(System.in);

System.out.println("Enter no of strings:");

int n=obj.nextInt();

String str[]=new String[n];

System.out.println("Enter Elements:");

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

{

str[i]=obj.next();

}

String temp="";

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

{

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

{

if(str[i].compareTo(str[j])>0)

{

temp=str[i];

str[i]=str[j];

str[j]=temp;

}

}

}

System.out.println("After Sorting");

for(String sort:str)

{

System.out.println(sort);

}

}

}

//7.Anagram

import java.util.\*;

public class anagramdemo{

public static void main(String[] args){

Scanner s=new Scanner(System.in);

System.out.println("Enter String1:");

String s1=s.next();

System.out.println("Enter String2:");

String s2=s.next();

anagramdemo obj=new anagramdemo();

String s3=obj.sort(s1.toCharArray());

String s4=obj.sort(s2.toCharArray());

if(s3.equals(s4))

{

System.out.println("Anagram");

}

else

{

System.out.println("Not Anagram");

}

}

String sort(char a[])

{

char temp;

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

{

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

{

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

{

temp=a[i];

a[i]=a[j];

a[j]=temp;

}

}

}

String s=String.valueOf(a);

return s;

}

}

//8.Change Two String Data

import java.util.\*;

public class changedemo{

public static void main(String[] args){

Scanner obj=new Scanner(System.in);

System.out.println("Enter String 1:");

String s1=obj.next();

System.out.println("Enter String 2:");

String s2=obj.next();

s1=s1+s2;

s2=s1.substring(0,s1.length()-s2.length());

s1=s1.substring(s2.length());

System.out.println("String 1:"+s1);

System.out.println("String 2:"+s2);

}

}

//9.Capitalize first letter

import java.util.\*;

public class capdemo{

public static void main(String[] args){

Scanner obj=new Scanner(System.in);

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

String s=obj.nextLine();

String str[]=s.split(" ");

String temp="";

for(String newstr:str)

{

String c=newstr.charAt(0)+"";

temp+=c.toUpperCase()+newstr.substring(1)+" ";

}

System.out.println(temp);

}

}

//10.Validate String

import java.util.\*;

public class specdemo{

public static void main(String[] args){

Scanner obj=new Scanner(System.in);

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

String s=obj.nextLine();

if(s.matches("[a-zA-Z ]+"))

{

System.out.println("Valid String");

}

else

{

System.out.println("Invalid String");

}

}

}

/\*

//11.Remove duplicate character

\*/

package stringhandling;

import java.util.\*;

public class RemoveDuplicate

{

public static void main(String[] args)

{

Scanner obj=new Scanner(System.in);

String news="";

System.out.print("\nEnter the String: ");

String s=obj.next();

char v='$';

char arr[]=s.toCharArray();

int n=arr.length;

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

{

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

{

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

{

char temp=arr[j];

arr[j]=v;

}

}

}

for(char c:arr)

{

if(c!=v)

{

news+=c;

}

}

System.out.println("\nThe String after removing duplicate characters in \""+s+"\" is: "+news);

}

}

/\*

//12.Remove digit

package stringhandling;

import java.util.\*;

public class RemoveDigit

{

public static void main(String[] args)

{

Scanner obj=new Scanner(System.in);

String newstring="",digit="";

System.out.print("\nEnter the String: ");

String s=obj.next();

char arr[]=s.toCharArray();

for(char c:arr)

{

int ascii=(int)c;

if(ascii>=48&&ascii<=57)

{

digit+=c;

}

else

{

newstring+=c;

}

}

System.out.println("\nThe String after removing digits: "+newstring);

}

} /\*

//13.count no of times each character present

package stringhandling;

import java.util.\*;

public class CharacterCount

{

public static void main(String[] args)

{

Scanner obj=new Scanner(System.in);

System.out.print("\nEnter the String: ");

String s=obj.next();

String cpy=s;

System.out.println("\nCounting the occurence of each character in \""+s+"\": ");

do

{

int count=0;

char arr[]=cpy.toCharArray();

int n=cpy.length();

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

{

if(arr[0]==arr[i])

{

count++;

}

}

if(count>=1)

{

System.out.println(""+arr[0]+": "+count);

}

cpy=cpy.replace(""+arr[0],"");

}while(cpy.length()!=0);

}

} /\*

//14.Print ASCII code of each character of string

package stringhandling;

import java.util.\*;

public class CharASCII

{

public static void main(String[] args)

{

Scanner obj=new Scanner(System.in);

System.out.print("\nEnter the String: ");

String s=obj.next();

System.out.println("\nASCII code of each character in the string \""+s+"\" is: ");

char arr[]=s.toCharArray();

for(char c:arr)

{

int ascii=(int)c;

System.out.println(c+"- "+ascii);

}

}

} /\*

//15.Print Upper case characters in Java

package stringhandling;

import java.util.\*;

public class Uppercase

{

public static void main(String[] args)

{

Scanner obj=new Scanner(System.in);

String upstr="";

System.out.print("\nEnter the String: ");

String s=obj.next();

char arr[]=s.toCharArray(); //A-65-->Z-90

for(char c:arr)

{

int v=(int)c;

if(v>=65&&v<=90)

{

upstr+=c;

}

}

System.out.println("The Upper case character in the string \""+s+"\"is: "+upstr);

}

}

//16.Lowercse character count

package com.mycompany.workout2;

import java.util.\*;

public class Workout2

{

public static void main(String[] args)

{

Scanner Sc = new Scanner(System.in);

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

String s = Sc.next();

int count = 0;

char c[] = s.toCharArray();

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

{

if(Character.isLowerCase(c[i]))

{

count++;

}

}

System.out.println("The lowercase in the String is : "+count);

Sc.close();

}

}

//17.String with digit first

import java.util.\*;

public class STRINGWITHDIGITS

{

public static void main(String[] args)

{

Scanner Sc = new Scanner(System.in);

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

String s = Sc.next();

char c[] = s.toCharArray();

String str = "";

String str1 = "";

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

{

if(Character.isDigit(c[i]))

{

str += c[i];

}

else

{

str1 += c[i];

}

}

String resultString = str+str1;

System.out.println("The given String with digit first is : "+resultString);

Sc.close();

}

}

//18.String without whitespace

import java.util.\*;

public class STRINGWITHOUTSPACE

{

public static void main(String[] args)

{

Scanner Sc = new Scanner(System.in);

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

String s = Sc.nextLine();

String str[] = s.split(" ");

String result = "";

for(String news : str)

{

result += news;

}

System.out.println("The String without space is : "+result);

Sc.close();

}

}

//19.Reverse a case of string

import java.util.\*;

public class REVERSESTRING

{

public static void main(String[] args)

{

Scanner Sc = new Scanner(System.in);

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

String s = Sc.nextLine();

StringBuffer sb = new StringBuffer(s);

sb.reverse();

System.out.println("The reversed String is : "+sb);

Sc.close();

}

}

//20.Piglatin

import java.util.\*;

public class PIGLATIN {

public static void main(String[] args) {

Scanner Sc = new Scanner(System.in);

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

String s = Sc.next();

char c[]= s.toCharArray();

String resultString = "";

if(c[0] == 'a' || c[0] == 'e' || c[0] == 'i' || c[0] == 'o' || c[0] == 'u' || c[0] == 'A' || c[0] == 'E' || c[0] == 'I' || c[0] == 'O' || c[0] == 'U')

{

String result = s+"way";

System.out.println("The Encoded String is : "+result);

}

else

{

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

{

if(c[i] == 'a' || c[i] == 'e' || c[i] == 'i' || c[i] == 'o' || c[i] == 'u' || c[i] == 'A' || c[i] == 'E' || c[i] == 'I' || c[i] == 'O' || c[i] == 'U')

{

resultString = s.substring(i)+s.substring(0,i);

break;

}

}

System.out.println("The Encoded String is : "+resultString);

}

Sc.close();

}

}

//21. Encoding in Java by shifting characters by 2

import java.util.Scanner;

public class StringEncoder {

public static String encode(String input) {

StringBuilder encoded = new StringBuilder();

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

char originalChar = input.charAt(i);

char encodedChar = (char)(originalChar + 2);

encoded.append(encodedChar);

}

return encoded.toString();

}

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a string to encode: ");

String input = scanner.nextLine();

scanner.close();

String encodedString = encode(input);

System.out.println("Encoded String: " + encodedString);

}

}

//22. Print the first character of each word in a sentence

import java.util.Scanner;

public class FirstCharacterOfWords {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a sentence: ");

String input = scanner.nextLine();

scanner.close();

String[] words = input.split(" ");

for (String word : words) {

if (!word.isEmpty()) {

char firstChar = word.charAt(0);

System.out.print(firstChar);

}

}

}

}

//23.Print the first 2 characters of each word in a sentence

import java.util.Scanner;

public class FirstTwoCharactersOfWords {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a sentence: ");

String input = scanner.nextLine();

scanner.close();

String[] words = input.split(" ");

for (String word : words) {

if (word.length() >= 2) {

String firstTwoChars = word.substring(0, 2);

System.out.print(firstTwoChars);

}

}

}

}

//24. Print a word starting with a particular letter or string

import java.util.Scanner;

public class WordsStartingWithInput {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a sentence: ");

String input = scanner.nextLine();

System.out.print("Enter a letter or string to search for: ");

String search = scanner.next();

scanner.close();

String[] words = input.split(" ");

for (String word : words) {

if (word.startsWith(search)) {

System.out.println(word);

}

}

}

}

//25.Print word ending with a particular letter or string

import java.util.Scanner;

public class WordsEndingWithInput {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a sentence: ");

String input = scanner.nextLine();

System.out.print("Enter a letter or string to search for at the end of words: ");

String search = scanner.next();

scanner.close();

String[] words = input.split(" ");

for (String word : words) {

if (word.endsWith(search)) {

System.out.println(word);

}

}

}

}

//26. Print word containing a particular letter or string

public class WordsWithLetterOrString {

public static void main(String[] args) {

String sentence = "This is a sample sentence with words.";

String searchWord = "sample";

String[] words = sentence.split(" ");

for (String word : words) {

if (word.contains(searchWord)) {

System.out.println(word);

}

}

}

}

//27. Print words having particular number of characters

public class WordsWithSpecificLength {

public static void main(String[] args) {

String sentence = "This is a sample sentence with words.";

int desiredLength = 5;

String[] words = sentence.split(" ");

for (String word : words) {

if (word.length() == desiredLength) {

System.out.println(word);

}

}

}

}

//28. Printing string with special characters

public class SpecialCharacterString {

public static void main(String[] args) {

String specialString = "This is a string with special characters: @#$%^&\*";

System.out.println(specialString);

}

}

//29. Find longest word in a sentence in Java

public class LongestWordInSentence {

public static void main(String[] args) {

String sentence = "This is a sample sentence with long and longest words.";

String[] words = sentence.split(" ");

String longestWord = "";

for (String word : words) {

if (word.length() > longestWord.length()) {

longestWord = word;

}

}

System.out.println("Longest word: " + longestWord);

}

}

//30. Find a particular word in a string

public class FindWordInString {

public static void main(String[] args) {

String sentence = "This is a sample sentence with words.";

String searchWord = "sample";

if (sentence.contains(searchWord)) {

System.out.println("Word found: " + searchWord);

} else {

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

}

}

}

//31.No.of.Words in Sentence

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int count=0;

Scanner scan=new Scanner(System.in);

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

String str=scan.nextLine();

String[] arr=str.split("[\\s,]");

for(String s:arr)

{

count++;

}

System.out.println("Number of Words in Java: "+count);

}

}

//32.No.of.Words Ends with Given Character

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int count=0;

Scanner scan=new Scanner(System.in);

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

String str=scan.nextLine();

System.out.println("Enter the Letter to be Check:");

char ch=scan.next().charAt(0);

String[] arr=str.split("[^a-zA-Z]");

for(String s:arr)

{

System.out.println(s);

char c[]=s.toCharArray();

if(c[c.length-1]==ch)

{

count++;

}

}

System.out.println("No.of.Words Ends with "+ch+": "+(count));

}

}

//33.Replace the Word in a Sentence with given word

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int count=0;

Scanner scan=new Scanner(System.in);

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

String str=scan.nextLine();

System.out.println("Enter the Word to be replaced:");

String old=scan.next();

System.out.println("Enter the Word to be replace:");

String newstr=scan.next();

str=str.replace(old,newstr);

System.out.println("Sentence After Replaced:");

System.out.println(str);

}

}

//34.Deleting the Word

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int count=0;

Scanner scan=new Scanner(System.in);

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

String str=scan.nextLine();

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

String old=scan.next();

str=str.replace(old,"").replaceAll("\\s+"," ");

System.out.println("After Deleting the Word: "+str);

}

}

//35.Change the Case of the Word

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int count=0;

Scanner scan=new Scanner(System.in);

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

String str=scan.nextLine();

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

String old=scan.next();

if(old.equals(old.toLowerCase()))

{

str=str.replace(old,old.toUpperCase());

}

else

{

str=str.replace(old,old.toLowerCase());

}

System.out.println("After Conversion: "+str);

}

}

//36.Swap the first and last Character in a word in Sentence

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int count=0;

Scanner scan=new Scanner(System.in);

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

String str=scan.nextLine();

String[] arr=str.split("[^a-zA-Z]");

String fin="";

for(String s:arr)

{

char ch[]=s.toCharArray();

char temp=ch[0];

ch[0]=ch[s.length()-1];

ch[s.length()-1]=temp;

String res=new String(ch);

fin=fin+" "+res;

}

System.out.println("Modified String:"+fin);

}

}