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CSE A

185001028

Write a program to find the largest word in a string? \*/

import java.util.\*;

class StringOpr{

String str;

void longest\_word(String str,int a[]){

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

int max=0,ind=0;

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

if (max < arr[i].length()){

max=arr[i].length();

ind=i;

}

}

a[0]=max;

int index=0;

for (int i=0;i<ind;i++){

index=index+arr[i].length();

}

index=index+ind;

a[1]=index;

return;

}

}

class EX1c\_Q1{

public static void main(String argv[]){

int arr[] = new int[2];

StringOpr f = new StringOpr();

Scanner s = new Scanner(System.in);

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

f.str = s.nextLine();

do{

f.longest\_word(f.str,arr);

System.out.println("Index="+ arr[1]);

for (int i=arr[1]; i<arr[1]+arr[0]; i++)

System.out.print(f.str.charAt(i));

System.out.println();

System.out.print("Enter the string(To stop enter \"STOP\"): ");

f.str = s.nextLine();

}while(!f.str.equalsIgnoreCase("stop"));

s.close();

}

}

/\*OUTPUT

Enter the string: The temperature is 32 degree

Index=4

temperature

Enter the string(To stop enter "STOP"): Java programming is fun

Index=5

programming

Enter the string(To stop enter "STOP"): stop

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/\*Q2. Write a java program to check whether a given string is a palindrome or not?\*/

import java.util.\*;

class function{

boolean check\_palindrome(String str){

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

for(int i=0;i<str.length()/2;i++)

if(!arr[i].equalsIgnoreCase(arr[str.length()-i-1]))

return false;

return true;

}

}

class EX1c\_Q2{

public static void main(String args[]){

Scanner s=new Scanner(System.in);

function f=new function();

String str;

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

str=s.nextLine();

do{

boolean flag=f.check\_palindrome(str);

if(flag==true)

System.out.println(str+" is a palindrome");

else

System.out.println(str+" is not a palindrome");

System.out.print("Enter a string(To stop enter \"STOP\"): ");

str=s.nextLine();

}while(!str.equalsIgnoreCase("stop"));

s.close();

}

}

/\*OUTPUT

cs1028@wtl4:~/Desktop/programs/1c$ java EX1c\_Q2

Enter a string: RaCeCaR

RaCeCaR is a palindrome

Enter a string(To stop enter "STOP"): NuN

NuN is a palindrome

Enter a string(To stop enter "STOP"): computer

computer is not a palindrome

Enter a string(To stop enter "STOP"): Tenet

Tenet is a palindrome

Enter a string(To stop enter "STOP"): stop

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/\*Q2. Write a java program to check whether a given string is a pangram or not?\*/

import java.util.\*;

class strCheck{

String str;

boolean checkpan(String str){

String strLower = str.toLowerCase();

int []alpha = new int[26];

int len = str.length();

for (int i=0; i<len; i++){

char ch = strLower.charAt(i);

//ch=(int)ch;

if (ch>=97 && ch<=122)

alpha[ch-97]++;

}

for (int i=0; i<26; i++){

if (alpha[i]==0)

return false;

}

return true;

}

}

class EX1c\_Q3{

public static void main(String args[]){

Scanner s = new Scanner(System.in);

strCheck f = new strCheck();

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

f.str = s.nextLine();

do{

if(f.checkpan(f.str)== true)

System.out.println("The given string is a pangram.");

else

System.out.println("The given string is not a pangram.");

System.out.print("Enter the string(To stop enter \"STOP\"): ");

f.str = s.nextLine();

}while(!f.str.equalsIgnoreCase("stop"));

s.close();

}

}

/\*OUTPUT

Enter the string: The quick brown fox jumps over the lazy dog

The given string is a pangram.

Enter the string: It’s a nice sunny day.

The given string is not a pangram.

Enter the string: Mr. Jock, TV quiz PhD., bags few lynx.

The given string is a pangram.

Enter the string: GQ's oft lucky whiz Dr. J, ex-NBA MVP - Steve Galen

The given string is a pangram.

Enter the string: This is not a pangram.

The given string is not a pangram.

Enter the string: stop

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