19-09-16

***Given a string, return the sum of the digits 0-9 that appear in the string, ignoring all other characters. Return 0 if there are no digits in the string***

***sumDigits("aa1bc2d3") 6***

***sumDigits("aa11b33") 8***

***sumDigits(“nodigits”) 0***

import java.util.\*;

public class solution3a

{

public static int sumDigits(String str)

{

int total = 0;

for (char c : str.toCharArray()) {

if (Character.isDigit(c)) {

total += Character.getNumericValue(c);

}

}

return total;

}

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

String str=sc.next();

System.out.println(sumDigits(str));

}

}

***Given a string, return the length of the largest "block" in the string. A block is a run of adjacent chars that are the same.***

***maxBlock("hello") 2***

***maxBlock("abbCCCddBBBxx") 3***

***maxBlock("") 0***

***maxBlock(“aaaaaa”) 6***

import java.util.\*;

public class solution3b

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

String str=sc.next();

System.out.println(maxBlock(str));

}

public static int maxBlock(String str) {

int max = 0;

int count = 1;

char o = ' ';

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

char c = str.charAt(i);

if (c == o) {

count++;

if (count > max) { max = count; }

} else {

count = 1;

if (count > max) { max = count; }

}

o = c;

}

return max;

}

}

***A "triple" in a string is a char appearing three times in a row. Return the number of triples in the given string. The triples may overlap.***

***countTriple("abcXXXabc") 1***

***countTriple("xxxabyyyycd") 3 (as ‘yyyy’ has ‘yyyy’ and ‘yyyy’)***

***countTriple("a") 0***

import java.util.\*;

public class solution3c

{

public static int countTriple(String str)

{

int count = 0;

int lim = str.length() - 2;

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

{

if(str.charAt(i) == str.charAt(i+1) && str.charAt(i) == str.charAt(i+2))

count++;

}

return count;

}

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

String str=sc.next();

System.out.println(countTriple(str));

}

}