package Codes;

import java.io.FileReader;

//

//import java.io.FileWriter;

import java.io.IOException;

import java.util.Arrays;

public class GenomicLength

{

public double count1=0,count2=0,count3=0,count4=0,total=0;

public double[] array=new double[5];

public GenomicLength(String name)

{

FileReader inputStream = null;

try

{

inputStream = new FileReader(name);

//outputStream = new FileWriter("charactero.txt");

int c;

while ((c = inputStream.read()) != -1)

{

if(c=='G')

count1++;

else if(c=='C')

count2++;

else if(c=='A')

count3++;

else if(c=='T')

count4++;

else

break;

}

total=count2+count1+count3+count4;

//System.out.println("Total length="+ total);

array[0]=(count3\*100+0.0)/total;

array[1]=(count1\*100+0.0)/total;

array[2]=(count2\*100+0.0)/total;

array[3]=(count4\*100+0.0)/total;

array[4]=total;

}

catch(IOException e)

{

//System.out.println("IOException occurred");

System.exit(0);

}

}

public double[] getGL()

{

//System.out.println(Arrays.toString(array));

return array;

}

//MAIN Function

public static void main(String[] args) throws IOException

{

//double arr[] = Function("C:/Users/Shreya Johri/Documents/vc.txt");

//System.out.println(Arrays.toString(arr));

}

}