import java.io.\*;

import java.util.Scanner;

public class finalProject

{

public static void main()throws IOException

{

int c=0,d=0;

boolean done=true;

int [] optionChosen=new int[7];

for(int i=0;i<7;i++)

{

optionChosen[i]=0;

}//end of for loop for array of chosen times

File ifile =new File("README.txt");

Scanner SC=new Scanner(ifile);

Scanner SC1=new Scanner(System.in);

String [][] array= new String [500][1];

while(SC.hasNextLine())

{

String s=SC.nextLine();

//System.out.println(s);

array[d][0]=s;

d++;

if(c>5||(s.equals("1")||s.equals("2")||s.equals("3")||s.equals("5")||s.equals("8")||s.equals("9")))

{

c=0;

d++;

}

}//end ofwhile loop creating the data array

/\*for(int i=0;i<29;i++)

{

for(int j=0;j<1;j++)

{

System.out.print(array[i][j]+"\t\t\t");

}

System.out.println();

}//end of the for loop that prints array\*/

int a=0,e=0,count=-1;

char sp=' ';

String arrayFinal1[][]=new String[9][6];

String arrayFinal2[][]=new String[5][6];

String arrayFinal3[][]=new String[8][6];

for(int g=2;g<=10;g++)

{

a=array[g][0].length();

for(int f=0;f<=a;f++)

{

sp=array[g][0].charAt(f);

if(sp==' ')

{

e=f;

count++;

arrayFinal1[g][count]=array[g][0].substring(0,e);

}

else

break;

}

}

count=-1;

for(int g=13;g<=17;g++)

{

a=array[g][0].length();

for(int f=0;f<=a;f++)

{

sp=array[g][0].charAt(f);

if(sp==' ')

{

e=f;

count++;

arrayFinal2[g][count]=array[g][0].substring(0,e);

}

else

break;

}

}

count=-1;

for(int g=20;g<=27;g++)

{

a=array[g][0].length();

for(int f=0;f<=a;f++)

{

sp=array[g][0].charAt(f);

if(sp==' ')

{

e=f;

count++;

arrayFinal3[g][count]=array[g][0].substring(0,e);

}

else

break;

}

}

System.out.println("Enter M if you want to explore the menu.");

System.out.println("Enter Q if you want to quit.");

while(done)

{

System.out.print("What do you want to do next?");

String answer=SC1.next();

if(answer.equalsIgnoreCase("m"))

{

menu(optionChosen,arrayFinal1,arrayFinal2,arrayFinal3,array);

}

else if(answer.equalsIgnoreCase("q"))

{

finalStats(optionChosen);

done=false;

}

else

System.out.println("Invalid option entered. Please Try Again.");

}//end of while loop

}//end of main

public static void menu(int option[],String arrayInfo1[][],String arrayInfo2[][],String arrayInfo3[][],String fullArray[][])

{

Scanner SC2=new Scanner (System.in);

System.out.println("L:List out all designer info");

System.out.println("D:Searches designer info based on last name");

System.out.println("S:Displays designers by season");

System.out.println("M:Displays designer salary report");

System.out.println("T:Displays designer status report");

System.out.println("Q:Return to previous menu");

boolean done1=true;

String ans;

while(done1)

{

System.out.print("What menu option would you like to choose?");

ans=SC2.nextLine();

if(ans.equalsIgnoreCase("L"))

{

listall(fullArray,arrayInfo1,arrayInfo2,arrayInfo3);

option[0]++;

}

else if(ans.equalsIgnoreCase("D"))

{

designerReport(arrayInfo1,arrayInfo2,arrayInfo3);

option[1]++;

}

else if(ans.equalsIgnoreCase("S"))

{

seasonReport(arrayInfo1,arrayInfo2,arrayInfo3);

option[2]++;

}

else if(ans.equalsIgnoreCase("M"))

{

salaryReport(arrayInfo1,arrayInfo2,arrayInfo3);

option[3]++;

}

else if(ans.equalsIgnoreCase("T"))

{

statusReport(arrayInfo1,arrayInfo2,arrayInfo3);

option[4]++;

}

else if(ans.equalsIgnoreCase("Q"))

{

option[5]++;

return;

}

else

{

System.out.print("Invalid option entered. Please Try Again.");

option[6]++;

}//end of else

}//end of while loop in menu()

}//end of menu

public static void listall(String infoArray[][],String infoArray1[][],String infoArray2[][],String infoArray3[][])

{

Scanner SC7=new Scanner(System.in);

String ansListall,ansStsList;

System.out.print("Would you like to list out designer info based on status?(Enter yes or no)");

ansListall=SC7.next();

int b=0;

boolean check=true;

if(ansListall.equalsIgnoreCase("No"))

{

for(int a=2;a<=10;a++)

{

System.out.println(infoArray[a][b]+" Season:1");

}

for(int e=13;e<=17;e++)

{

System.out.println(infoArray[e][b]+" Season:2");

}

for(int f=20;f<=27;f++)

{

System.out.println(infoArray[f][b]+" Season:3");

}

}

else

{

while(check)

{

System.out.println("Would you like to print out designer info for amateurs or professionals?");

System.out.print("Enter 'a' for amateurs and 'p' for professionals");

ansStsList=SC7.next();

if(ansStsList.equalsIgnoreCase("a"))

{

for(int v=0;v<9;v++)

{

if(infoArray1[v][4].equals("a"))

System.out.print(infoArray1[v][0]+" "+infoArray1[v][1]+" "+infoArray1[v][2]+" "+infoArray1[v][3]+" "+infoArray1[v][5]);

}

for(int v=0;v<5;v++)

{

if(infoArray2[v][4].equals("a"))

System.out.print(infoArray2[v][0]+" "+infoArray2[v][1]+" "+infoArray2[v][2]+" "+infoArray2[v][3]+" "+infoArray2[v][5]);

}

for(int v=0;v<8;v++)

{

if(infoArray3[v][4].equals("a"))

System.out.print(infoArray3[v][0]+" "+infoArray3[v][1]+" "+infoArray3[v][2]+" "+infoArray3[v][3]+" "+infoArray3[v][5]);

}

check=false;

}

else if(ansStsList.equalsIgnoreCase("p"))

{

for(int v=0;v<9;v++)

{

if(infoArray1[v][4].equals("p"))

System.out.print(infoArray1[v][0]+" "+infoArray1[v][1]+" "+infoArray1[v][2]+" "+infoArray1[v][3]+" "+infoArray1[v][5]);

}

for(int v=0;v<5;v++)

{

if(infoArray2[v][4].equals("p"))

System.out.print(infoArray2[v][0]+" "+infoArray2[v][1]+" "+infoArray2[v][2]+" "+infoArray2[v][3]+" "+infoArray2[v][5]);

}

for(int v=0;v<8;v++)

{

if(infoArray3[v][4].equals("p"))

System.out.print(infoArray3[v][0]+" "+infoArray3[v][1]+" "+infoArray3[v][2]+" "+infoArray3[v][3]+" "+infoArray3[v][5]);

}

check=false;

}

else

System.out.print("Invalid status Entered.");

}

}

}

public static boolean designerReport(String designerInfo1[][],String designerInfo2[][],String designerInfo3[][])

{

Scanner SC3=new Scanner(System.in);

String ansLastName;

System.out.print("Which designer info would you like? Please Enter The Last Name Of Designer.");

ansLastName=SC3.next();

boolean design=false;

for(int z=0;z<9;z++)

{

for(int x=0;x<6;x++)

{

if(designerInfo1[z][x].equalsIgnoreCase(ansLastName))

{

design=true;

}

}

}

for(int z=0;z<5;z++)

{

for(int x=0;x<6;x++)

{

if(designerInfo2[z][x].equalsIgnoreCase(ansLastName))

{

design=true;

}

}

}

for(int z=0;z<8;z++)

{

for(int x=0;x<6;x++)

{

if(designerInfo3[z][x].equalsIgnoreCase(ansLastName))

{

design=true;

}

}

}

if(design=false)

System.out.print("No designer found.");

return design;

}

public static boolean seasonReport(String arraySeason1[][],String arraySeason2[][],String arraySeason3[][] )

{

Scanner SC4=new Scanner(System.in);

String seasonNum;

System.out.println("Which season report would you like?");

System.out.print("Enter season number for specific season or 'all' for all seasons.");

seasonNum=SC4.next();

double totalSal=0.0,avgSal=1,sal=0;

boolean season=true;

if(seasonNum.equals("1"))

{

for(int p=0;p<9;p++)

{

for(int q=0;q<=3;q++)

{

System.out.print(arraySeason1[p][q]);

}

System.out.println();

}

for(int p=0;p<9;p++)

{

sal=Double.valueOf(arraySeason1[p][3]);

totalSal=totalSal+sal;

}

System.out.print("The total salary for the season was: "+totalSal);

avgSal=totalSal/9;

System.out.print("The average salary for the season was: "+avgSal);

}

else if(seasonNum.equals("2"))

{

for(int p=0;p<5;p++)

{

for(int q=0;q<=3;q++)

{

System.out.print(arraySeason2[p][q]);

}

System.out.println();

}

for(int p=0;p<5;p++)

{

sal=Double.valueOf(arraySeason2[p][3]);

totalSal=totalSal+sal;

}

System.out.print("The total salary for the season was: "+totalSal);

avgSal=totalSal/5;

System.out.print("The average salary for the season was: "+avgSal);

}

else if(seasonNum.equals("3"))

{

for(int p=0;p<8;p++)

{

for(int q=0;q<=3;q++)

{

System.out.print(arraySeason3[p][q]);

}

System.out.println();

}

for(int p=0;p<8;p++)

{

sal=Double.valueOf(arraySeason3[p][3]);

totalSal=totalSal+sal;

}

System.out.print("The total salary for the season was: "+totalSal);

avgSal=totalSal/8;

System.out.print("The average salary for the season was: "+avgSal);

}

else if(seasonNum.equalsIgnoreCase("all"))

{

//for season 1

for(int p=0;p<9;p++)

{

for(int q=0;q<=3;q++)

{

System.out.print(arraySeason1[p][q]);

}

System.out.println();

}

for(int p=0;p<9;p++)

{

sal=Double.valueOf(arraySeason1[p][3]);

totalSal=totalSal+sal;

}

System.out.print("The total salary for the season 1 was: "+totalSal);

avgSal=totalSal/9;

System.out.print("The average salary for the season 1 was: "+avgSal);

totalSal=0.0;

//for season 2

for(int p=0;p<5;p++)

{

for(int q=0;q<=3;q++)

{

System.out.print(arraySeason2[p][q]);

}

System.out.println();

}

for(int p=0;p<5;p++)

{

sal=Double.valueOf(arraySeason2[p][3]);

totalSal=totalSal+sal;

}

System.out.print("The total salary for the season 2 was: "+totalSal);

avgSal=totalSal/5;

System.out.print("The average salary for the season 2 was: "+avgSal);

totalSal=0.0;

//for season 3

for(int p=0;p<8;p++)

{

for(int q=0;q<=3;q++)

{

System.out.print(arraySeason3[p][q]);

}

System.out.println();

}

for(int p=0;p<8;p++)

{

sal=Double.valueOf(arraySeason3[p][3]);

totalSal=totalSal+sal;

}

System.out.print("The total salary for the season 3 was: "+totalSal);

avgSal=totalSal/8;

System.out.print("The average salary for the season 3 was: "+avgSal);

}

else

{

System.out.print("No season found.");

season=false;

}

return season;

}

public static boolean salaryReport(String salaryDesigner1[][],String salaryDesigner2[][],String salaryDesigner3[][])

{

Scanner SC5=new Scanner(System.in);

String salAns;

System.out.println("Which designer's salary report would you like?");

System.out.print("Enter the last name of the designer or 'all' for all degners.");

salAns=SC5.next();

boolean salRep=false;

if(!salAns.equalsIgnoreCase("all"))

{

for(int s=0;s<9;s++)

{

if(salaryDesigner1[s][0].equalsIgnoreCase(salAns))

{

System.out.println("The designer's name is :"+salaryDesigner1[s][0]+" "+salaryDesigner1[s][1]);

System.out.println("The designer's salary is :"+salaryDesigner1[s][3]);

salRep=true;

}

}

for(int s=0;s<5;s++)

{

if(salaryDesigner1[s][0].equalsIgnoreCase(salAns))

{

System.out.println("The designer's name is :"+salaryDesigner2[s][0]+" "+salaryDesigner2[s][1]);

System.out.println("The designer's salary is :"+salaryDesigner2[s][3]);

salRep=true;

}

}

for(int s=0;s<8;s++)

{

if(salaryDesigner1[s][0].equalsIgnoreCase(salAns))

{

System.out.println("The designer's name is :"+salaryDesigner3[s][0]+" "+salaryDesigner3[s][1]);

System.out.println("The designer's salary is :"+salaryDesigner3[s][3]);

salRep=true;

}

}

}

else

{

//season 1

for(int s=0;s<9;s++)

{

System.out.println("The designer's name is :"+salaryDesigner1[s][0]+" "+salaryDesigner1[s][1]);

System.out.println("The designer's salary is :"+salaryDesigner1[s][3]);

}

//season 2

for(int s=0;s<9;s++)

{

System.out.println("The designer's name is :"+salaryDesigner2[s][0]+" "+salaryDesigner2[s][1]);

System.out.println("The designer's salary is :"+salaryDesigner2[s][3]);

}

//season 3

for(int s=0;s<9;s++)

{

System.out.println("The designer's name is :"+salaryDesigner3[s][0]+" "+salaryDesigner3[s][1]);

System.out.println("The designer's salary is :"+salaryDesigner3[s][3]);

}

salRep=true;

}

if(salRep=false)

System.out.print("No designer found.");

return salRep;

}

public static boolean statusReport(String statusDesigner1[][],String statusDesigner2[][],String statusDesigner3[][])

{

boolean stsRep=false;

Scanner SC6=new Scanner(System.in);

String stsAns;

System.out.println("What designer status wouldyou like to search for?");

System.out.print("Enter 'a','p' or 'all'.");

stsAns=SC6.next();

int age=0;

double dsrSal=0.0;

double potEarn=0.0;

final int MAXAGE=75;

final int MINAGE=16;

final double SAL=412000;

final double MAXSAL=10000000;

if(stsAns.equalsIgnoreCase("a"))

{

for(int r=0;r<9;r++)

{

if(statusDesigner1[r][4].equals("a"))

{

System.out.print("The name of the designer is: "+statusDesigner1[r][0]+" "+statusDesigner1[r][1]+ "CURRENTLY AMATEUR");

}

}

for(int r=0;r<5;r++)

{

if(statusDesigner2[r][4].equals("a"))

{

System.out.print("The name of the designer is: "+statusDesigner2[r][0]+" "+statusDesigner2[r][1]+ "CURRENTLY AMATEUR");

}

}

for(int r=0;r<8;r++)

{

if(statusDesigner3[r][4].equals("a"))

{

System.out.print("The name of the designer is: "+statusDesigner3[r][0]+" "+statusDesigner3[r][1]+ "CURRENTLY AMATEUR");

}

}

stsRep=true;

}

else if(stsAns.equalsIgnoreCase("p"))

{

for(int r=0;r<9;r++)

{

if(statusDesigner1[r][4].equals("p"))

{

System.out.println("The name of the designer is: "+statusDesigner1[r][0]+" "+statusDesigner1[r][1]);

System.out.println("The age of the designer is: "+statusDesigner1[r][2]);

System.out.println("The salary of the designer is: "+statusDesigner1[r][3]);

age=Integer.parseInt(statusDesigner1[r][2]);

dsrSal=Double.valueOf(statusDesigner1[r][3]);

potEarn=((MAXAGE-age)\*SAL)+((age-MINAGE)\*dsrSal);

if(potEarn<MAXSAL)

System.out.print("The designer's Potential Career Earnings are: $"+potEarn);

else

System.out.print("The designer's Potential Career Earnings are: $10,000,000");

}

}

for(int r=0;r<5;r++)

{

if(statusDesigner2[r][4].equals("p"))

{

System.out.println("The name of the designer is: "+statusDesigner2[r][0]+" "+statusDesigner2[r][1]);

System.out.println("The age of the designer is: "+statusDesigner2[r][2]);

System.out.println("The salary of the designer is: "+statusDesigner2[r][3]);

age=Integer.parseInt(statusDesigner2[r][2]);

dsrSal=Double.valueOf(statusDesigner2[r][3]);

potEarn=((MAXAGE-age)\*SAL)+((age-MINAGE)\*dsrSal);

if(potEarn<MAXSAL)

System.out.print("The designer's Potential Career Earnings are: $"+potEarn);

else

System.out.print("The designer's Potential Career Earnings are: $10,000,000");

}

}

for(int r=0;r<8;r++)

{

if(statusDesigner3[r][4].equals("p"))

{

System.out.println("The name of the designer is: "+statusDesigner3[r][0]+" "+statusDesigner3[r][1]);

System.out.println("The age of the designer is: "+statusDesigner3[r][2]);

System.out.println("The salary of the designer is: "+statusDesigner3[r][3]);

age=Integer.parseInt(statusDesigner3[r][2]);

dsrSal=Double.valueOf(statusDesigner3[r][3]);

potEarn=((MAXAGE-age)\*SAL)+((age-MINAGE)\*dsrSal);

if(potEarn<MAXSAL)

System.out.print("The designer's Potential Career Earnings are: $"+potEarn);

else

System.out.print("The designer's Potential Career Earnings are: $10,000,000");

}

}

stsRep=true;

}

else if(stsAns.equalsIgnoreCase("all"))

{

System.out.println("FOR A STATUS a");

for(int r=0;r<9;r++)

{

if(statusDesigner1[r][4].equals("a"))

{

System.out.print("The name of the designer is: "+statusDesigner1[r][0]+" "+statusDesigner1[r][1]+ "CURRENTLY AMATEUR");

}

}

for(int r=0;r<5;r++)

{

if(statusDesigner2[r][4].equals("a"))

{

System.out.print("The name of the designer is: "+statusDesigner2[r][0]+" "+statusDesigner2[r][1]+ "CURRENTLY AMATEUR");

}

}

for(int r=0;r<8;r++)

{

if(statusDesigner3[r][4].equals("a"))

{

System.out.print("The name of the designer is: "+statusDesigner2[r][0]+" "+statusDesigner2[r][1]+ "CURRENTLY AMATEUR");

}

}

System.out.println("FOR STATUS p");

for(int r=0;r<9;r++)

{

if(statusDesigner1[r][4].equals("p"))

{

System.out.println("The name of the designer is: "+statusDesigner1[r][0]+" "+statusDesigner1[r][1]);

System.out.println("The age of the designer is: "+statusDesigner1[r][2]);

System.out.println("The salary of the designer is: "+statusDesigner1[r][3]);

age=Integer.parseInt(statusDesigner1[r][2]);

dsrSal=Double.valueOf(statusDesigner1[r][3]);

potEarn=((MAXAGE-age)\*SAL)+((age-MINAGE)\*dsrSal);

if(potEarn<MAXSAL)

System.out.print("The designer's Potential Career Earnings are: $"+potEarn);

else

System.out.print("The designer's Potential Career Earnings are: $10,000,000");

}

}

for(int r=0;r<5;r++)

{

if(statusDesigner2[r][4].equals("p"))

{

System.out.println("The name of the designer is: "+statusDesigner2[r][0]+" "+statusDesigner2[r][1]);

System.out.println("The age of the designer is: "+statusDesigner2[r][2]);

System.out.println("The salary of the designer is: "+statusDesigner2[r][3]);

age=Integer.parseInt(statusDesigner2[r][2]);

dsrSal=Double.valueOf(statusDesigner2[r][3]);

potEarn=((MAXAGE-age)\*SAL)+((age-MINAGE)\*dsrSal);

if(potEarn<MAXSAL)

System.out.print("The designer's Potential Career Earnings are: $"+potEarn);

else

System.out.print("The designer's Potential Career Earnings are: $10,000,000");

}

}

for(int r=0;r<8;r++)

{

if(statusDesigner3[r][4].equals("p"))

{

System.out.println("The name of the designer is: "+statusDesigner3[r][0]+" "+statusDesigner3[r][1]);

System.out.println("The age of the designer is: "+statusDesigner3[r][2]);

System.out.println("The salary of the designer is: "+statusDesigner3[r][3]);

age=Integer.parseInt(statusDesigner3[r][2]);

dsrSal=Double.valueOf(statusDesigner3[r][3]);

potEarn=((MAXAGE-age)\*SAL)+((age-MINAGE)\*dsrSal);

if(potEarn<MAXSAL)

System.out.print("The designer's Potential Career Earnings are: $"+potEarn);

else

System.out.print("The designer's Potential Career Earnings are: $10,000,000");

}

}

stsRep=true;

}

if(stsRep=false)

System.out.print("No status found.");

return stsRep;

}

public static void finalStats(int optionChosenPrint[])

{

System.out.println("The option L was chosen "+optionChosenPrint[0]+" times.");

System.out.println("The option D was chosen "+optionChosenPrint[1]+" times.");

System.out.println("The option S was chosen "+optionChosenPrint[2]+" times.");

System.out.println("The option M was chosen "+optionChosenPrint[3]+" times.");

System.out.println("The option T was chosen "+optionChosenPrint[4]+" times.");

System.out.println("The option Q was chosen "+optionChosenPrint[5]+" times.");

System.out.println("The Invalid option was chosen "+optionChosenPrint[6]+" times.");

return;

}

}