package case1;

import java.util.\*;

public class Case1 {

public static void main(String[] args) {

Scanner t=new Scanner(System.in);

Scanner b1=new Scanner(System.in);

String[][] Departuretimes=new String[3][15];

String DepartureTimes[][]=new String[10][10];

int Passengersnumbers;

int choice;

String a[][]=new String[15][2];

int b[]=new int[15];

a[0][0]="\nMonday";

a[0][1]="\t\t6.04";

a[1][0]="\n";

a[1][1]="9.04";

a[2][1]="12.04";

a[3][1]="15.04";

a[4][1]="19.04";

a[5][0]="\nTuesday";

a[5][1]="\t\t6.04";

a[6][0]="\0";

a[6][1]="9.04";

a[7][0]="\0";

a[7][1]="12.04";

a[2][0]="\0";

a[3][0]="\0";

a[4][0]="\0";

a[1][0]="\0";

a[8][0]="\0";

a[8][1]="15.04";

a[9][0]="\0";

a[9][1]="19.04";

a[14][0]="\0";

a[13][0]="\0";

a[11][0]="\0";

a[12][0]="\0";

a[10][0]="\nWednesday";

a[10][1]="\t6.04";

a[11][1]="9.04";

a[12][1]="12.04";

a[13][1]="15.04";

a[14][1]="19.04";

b[0]=22;

b[1]=119;

b[2]=64;

b[3]=177;

b[4]=21;

b[5]=22;

b[6]=111;

b[7]=87;

b[8]= 193;

b[9]= 22;

b[10]= 11;

b[11]=107 ;

b[12]= 93;

b[13]= 162;

b[14]= 42;

System.out.println("Day \t\t\t\t\tDeparture Time \t\tNumber of Passenger");

for(int i=0;i<15;i++)

{

for(int j=0;j<2;j++)

{

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

}

System.out.print(b[i]);

System.out.println("");

}

System.out.println("\n\n1.)The most popular train (day and time)\n" +

"2.) Least popular train (day and time)\n" +

"3.) Whether 6.04 train is more popular than the 9.04 train\n" +

"4.) Whether 6.04 train on Monday is more popular than the 6.04 train on Tuesday\n" +

"5.) Which two trains is more popular where day and time is specified by the user\n" +

"6.) Display a list of all trains (day, time) where passenger numbers were below 50\n" +

"7.) Average number of passengers travelling on the 12.04 train over the three days (Monday, Tuesday, Wednesday)\n" +

"8.) Average number of passengers travelling where day and time is specified by the user\n"+

"9.)Exit");

choice=t.nextInt();

switch(choice)

{

case 1:

System.out.println("\t\tPopular train");

int pop=b[0];

for(int i=0;i<15;i++)

{

if(pop<b[i])

{

pop=b[i];

}

}

if(pop ==b[0] )

{

System.out.println(a[0][0] + a[0][1] );

}

else if(pop ==b[1])

System.out.println(a[0][0]+ a[1][1]);

else if(pop ==b[2])

System.out.println(a[0][0]+ a[2][1]);

else if(pop ==b[3])

System.out.println(a[0][0]+ a[3][1]);

else if(pop ==b[4])

System.out.println(a[0][0]+ a[4][1]);

else if(pop ==b[5])

System.out.println(a[5][0]+ a[5][1]);

else if(pop ==b[6])

System.out.println(a[5][0]+ a[6][1]);

else if(pop ==b[7])

System.out.println(a[5][0]+ a[7][1]);

else if(pop ==b[8])

System.out.println(a[5][0]+ a[8][1]);

else if(pop ==b[9])

System.out.println(a[5][0]+ a[9][1]);

else if(pop ==b[10])

System.out.println(a[10][0]+ a[10][1]);

else if(pop ==b[11])

System.out.println(a[10][0]+ a[11][1]);

else if(pop ==b[12])

System.out.println(a[10][0]+ a[12][1]);

else if(pop ==b[13])

System.out.println(a[10][0]+ a[13][1]);

else if(pop ==b[14])

System.out.println(a[10][0]+ a[14][1]);

// System.out.println("Day:\t"+ a[5][0]+"\n\nTime:\t"+ a[8][1]);

break ;

case 2:

System.out.println("\t\tLeast Popular train");

int pop1=b[0];

for(int i=0;i<15;i++)

{

if(pop1>b[i])

{

pop1=b[i];

}

}

if(pop1 ==b[0] )

{

System.out.println(a[0][0] + a[0][1] );

}

else if(pop1 ==b[1])

System.out.println(a[0][0]+ a[1][1]);

else if(pop1 ==b[2])

System.out.println(a[0][0]+ a[2][1]);

else if(pop1 ==b[3])

System.out.println(a[0][0]+ a[3][1]);

else if(pop1 ==b[4])

System.out.println(a[0][0]+ a[4][1]);

else if(pop1 ==b[5])

System.out.println(a[5][0]+ a[5][1]);

else if(pop1 ==b[6])

System.out.println(a[5][0]+ a[6][1]);

else if(pop1 ==b[7])

System.out.println(a[5][0]+ a[7][1]);

else if(pop1 ==b[8])

System.out.println(a[5][0]+ a[8][1]);

else if(pop1 ==b[9])

System.out.println(a[5][0]+ a[9][1]);

else if(pop1 ==b[10])

System.out.println(a[10][0]+ a[10][1]);

else if(pop1 ==b[11])

System.out.println(a[10][0]+ a[11][1]);

else if(pop1 ==b[12])

System.out.println(a[10][0]+ a[12][1]);

else if(pop1 ==b[13])

System.out.println(a[10][0]+ a[13][1]);

else if(pop1 ==b[14])

System.out.println(a[10][0]+ a[14][1]);

// System.out.println("Day:\t" + a[10][0] +"\n\nTime:\t"+ a[10][1]);

break ;

case 3:

System.out.println("Time:6.04 \nDay:Monday \tPassengers:22\n \nDay:Tuesday \tPassengers:22 \nDay:Wednesday \tPassengers:11");

System.out.println("Time:9.04 \nDay:Monday \tPassengers:119 \nDay:Tuesday \tPassengers:111 \nDay:Wednesday \tPassengers:107");

double t1=6.04,t2=9.04;

double p11=22,p12=22,p13=11,p21=119,p22=111,p23=107;

if(p11>p21 && p11>p22 && p11>p23 && p12>p21 && p12>p22 && p12>p23 && p13>p21 && p13>p22 && p13>p23)

{

System.out.println("6.04 train is popular");

}

else

{

System.out.println("9.04 train is popular");

}

break ;

case 4:

System.out.println("Both the trains are not popular");

System.out.println("Monday \t\tTime:6.04 \nPassengers:22 \nTuesday \tTime:6.04 \nPassengers:22");

int q=22,w=22;

if(q>w)

{

System.out.println("Monday-train is popular");

}

else

System.out.println("Both trains are equally popular");

break ;

case 5:

/\*int ty[]={22,119,64,177,21 };

int ty1[]={22,111,87,193,22};

int ty2[]={11,107,93,162,42};

\*/

double oi[]={6.04,9.04,12.04,15.04,19.04,6.04,9.04,12.04,15.04,19.04,6.04,9.04,12.04,15.04,19.04};

//double oi2[]={6.04,9.04,12.04,15.04,19.04};

//double oi3[]={6.04,9.04,12.04,15.04,19.04};

String lp[]=new String[3];

lp[0]="Monday";

lp[1]="Tuesday";

lp[2]="Wednesday";

String nm[]=new String[2];

int sum=0,sum1=0,sum2=0,total;

double oi1[]=new double[2];

for(int i=0;i<2;i++)

{

System.out.println("Enter the Day");

nm[i]=b1.nextLine();

}

for(int i=0;i<2;i++)

{

System.out.println("Enter the time");

oi1[i]=t.nextDouble();

}

for(int i=0;i<2;i++)

{

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

{

if(nm[i].contentEquals(lp[0]))

{

if(oi1[i]==oi[j])

{

sum=sum+b[j];

}

}

}

}

for(int i=0;i<2;i++)

{

for(int j=5;j<10;j++)

{

if(nm[i].contentEquals(lp[1]))

{

if(oi1[i]==oi[j])

{

sum1=sum1+b[j];

}

}

}

}

for(int i=0;i<2;i++)

{

for(int j=10;j<15;j++)

{

if(nm[i].contentEquals(lp[2]))

{

if(oi1[i]==oi[j])

{

sum2=sum2+b[j];

}

}

}

}

if(sum>sum1 &&sum>sum2)

{

System.out.println("Train1 is popular");

}

else if(sum1>sum2)

{

System.out.println("Train2 is popular");

}

else

System.out.println("Train3 is popular");

break ;

case 6:

int pp[]={22,119,64,177,21 };

int pp1[]={22,111,87,193,22};

int pp2[]={11,107,93,162,42};

double oo1[]={6.04,9.04,12.04,15.04,19.04};

double oo2[]={6.04,9.04,12.04,15.04,19.04};

double oo3[]={6.04,9.04,12.04,15.04,19.04};

String e1[]=new String[3];

e1[0]="Monday";

e1[1]="Tuesday";

e1[2]="Wednesday";

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

{

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

{

if(pp[j]<50)

{

System.out.println("Day: "+e1[i]+"\nTime: "+oo1[i]+"\nPassengers: "+pp[j]);

}

else if(pp1[j]<50)

{

System.out.println("Day: "+e1[i]+"\nTime: "+oo2[i]+"\nPassengers: "+pp1[j]);

}

else if(pp2[j]<50)

{

System.out.println("Day: "+e1[i]+"\nTime: "+oo3[i]+"\nPassengers: "+pp2[j]);

}

}

}

break ;

case 7:

int g,y=64,m=87,n=93,d;

System.out.println("Monday \n\tPassengers:64 \nTuesday \n\tPassengers:87 \nWednesday \n\tPassengers:93");

d=y+m+n;

System.out.println("The Average passengers: "+ d/3);

break;

case 8:

int ty13[]={22,119,64,177,21 };

int ty11[]={22,111,87,193,22};

int ty12[]={11,107,93,162,42};

double oi111[]={6.04,9.04,12.04,15.04,19.04};

double oi12[]={6.04,9.04,12.04,15.04,19.04};

double oi13[]={6.04,9.04,12.04,15.04,19.04};

String lp1[]=new String[3];

lp1[0]="Monday";

lp1[1]="Tuesday";

lp1[2]="Wednesday";

String nm1;

int sum111=0,sum11=0,sum12=0,total1;

double oi11;

System.out.println("Enter the Day");

nm1=b1.nextLine();

System.out.println("Enter the time");

oi11=t.nextDouble();

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

{

if(nm1.contentEquals(lp1[0]))

{

if(oi11==oi111[j])

{

System.out.println("The average passengers:"+ty13[j]);

}

}

else if(nm1.contentEquals(lp1[1]))

{

if(oi11==oi12[j])

{

System.out.println("The average passengers:"+ty11[j]);

}

}

else if(nm1.contentEquals(lp1[2]))

{

if(oi11==oi13[j])

{

System.out.println("The average passengers"+ty12[j]);

}

}

}

break ;

case 9:

System.exit(0);

default:

System.out.println("\nInvalid!!");

}

}

}