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import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStreamReader;

class VistersCount {

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

        BufferedReader bf=new BufferedReader(new InputStreamReader(System.in));

        int year=Integer.parseInt(args[0]);

        int counter[][][];

        counter=new int[12][][];

        int monthDays[]={31,28,31,30,31,30,31,31,30,31,30,31};

        if(year%4==0){

            monthDays[1]=29;

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

            {

                counter[i]=new int[monthDays[i]][24];

            }

            int size=366;

        }

        else

        {

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

            {

                counter[i]=new int[monthDays[i]][24];

            }

            int size=365;

        }

        for(int i=0;i<12;i++)

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{
    for(int j=0;j<monthDays[i];j++)
    {
        String str=bf.readLine();
        String hours[]=str.split(" ");
        for(int k=0;k<24;k++)
            counter[i][j][k]=Integer.parseInt(hours[k]);
    }
}

System.out.println("-----MODULE 1-----");

int sum=0,average=0;
for(int i=0;i<31;i++)
{
    for(int j=0;j<24;j++)
    {
        sum=sum+counter[0][i][j];
    }
}

average=sum/(31*24);

System.out.println("AVERAGE OF JANUARY MONTH: "+average);

System.out.println("-----MODULE 2-----");

sum=0;average=0;
for(int i=0;i<24;i++)
{
    sum=sum+counter[11][20][i];
}

average=sum/24;

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System.out.println("AVERAGE OF DECEMBER 21: "+average);

System.out.println("-----MODULE 3-----");

sum=0;average=0;

for(int i=0;i<12;i++)

{

    for(int j=0;j<24;j++)

    {

        sum=sum+counter[i][6][j];

    }

    average=sum/24;

    int k=i+1;

    System.out.println("average of 7 th day"+k+ "every month:"+average);

    average=0;sum=0;

}

System.out.println("-----MODULE 4-----");

sum=0;average=0;

for(int i=0;i<12;i++)

{

    for(int j=0;j<24;j++)

    {

        sum=sum+counter[i][27][j];

    }

    average=sum/24;

    int k=i+1;

    System.out.println("average of 29 th day"+k+ "every month:"+average);

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        average=0;sum=0;
    }
System.out.println("-----MODULE 5-----");

    sum=0;average=0;

    int m=1;

    for(int i=0;i<12;i++)
    {
        for(int j=0;j<monthDays[i];j++)
        {
            for(int k=9;k<17;k++)
            {
                sum=sum+counter[i][j][k];
            }

            average=sum/9;

            System.out.println("average number of customers "+m+" day of hour 10 to 18: "+average);

            m++;

            sum=0;average=0;

        }
    }

System.out.println("-----MODULE 6-----");

    sum=0;average=0;

    for(int i=0;i<12;i++)
    {
        for(int j=7;j<11;j++)
        {
            sum=sum+counter[i][4][j];

            sum=sum+counter[i][6][j];
        }
    }

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sum=sum+counter[i][11][j];

sum=sum+counter[i][15][j];

sum=sum+counter[i][22][j];
}

for(int j=15;j<24;j++)

{

sum=sum+counter[i][4][j];

sum=sum+counter[i][6][j];

sum=sum+counter[i][11][j];

sum=sum+counter[i][15][j];

sum=sum+counter[i][22][j];

}

average=sum/(5*14);

System.out.println("average number of customers on" +(i+1) + "month of 5th, 7th, 12th, 16th, and 23rd
of hour 8 to 12 and 16 to 24: " + average);

average=0; sum=0;

}

System.out.println("-----MODULE 7-----");

sum=0; average=0; m=1;

for(int i=0; i<31; i++)

{

for(int j=0; j<24; j++)

{

sum=sum+counter[6][i][j];

}

}

average=sum/24;

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        System.out.println("average number of customers on "+m+"day of July month: "+average);

        average=0;sum=0;

        m++;

    }

    System.out.println("-----MODULE 8-----");

    int total=0;average=0;

    for(int i=0;i<12;i++)
    {
        for(int j=0;j<monthDays[i];j++)
        {
            for(int k=0;k<24;k++)
            {
                total=total+counter[i][j][k];
            }
        }

        average=total/monthDays[i];

        System.out.println("total&average number of customers on"+(i+1)+"month    "+total+"
"+average);

        total=0;average=0;

    }

}

}

```