```java
import java.io.IOException;
import java.io.BufferedReader;
import java.io.InputStreamReader;

public class Hospital {

    public static void main(String args[]) throws IOException {
        int year = 2016;
        int counters[][][];
        int k = 0;
        counters = new int[12][][];
        int monthDays[] = { 31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31 };
        if (year % 4 == 0) {
            monthDays[1] = 29;
        } else {
            monthDays[1] = 28;
        }
        for (int i = 0; i < monthDays.length; i++) {
            counters[i] = new int[monthDays[i]][24];

        }
        BufferedReader bf = new BufferedReader(new InputStreamReader(System.in));
        for (int i = 0; i < 12; i++) {
            for (int j = 0; j < monthDays[i]; j++) {
                String str = bf.readLine();
                String day[] = str.split(" ");
                for (k = 0; k < 24; k++) {
                    counters[i][j][k] = Integer.parseInt(day[k]);
                }
            }
        }
        for (int i = 0; i < 12; i++) {
            for (int j = 0; j < monthDays[i]; j++) {

                for (k = 0; k < 24; k++) {
                    System.out.println(counters[i][j][k]);
                }
            }
        }



// 	JANUARY MONTH


int average;
int sum=0;
int i=0;
for(int j=0;j<monthDays[i];j++)
{
	for(k=0;k<24;k++)
	{
		sum=sum+counters[i][j][k];

	}
```

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}
average=sum/(monthDays[i]*24);
System.out.println("AVERAGE COUNT IN JANUARY  "+average);


//DECEMBER MONTH

i=11;
int j=20;
sum=0;
for(k=0;k<24;k++)
{
        sum=sum+counters[i][j][k];
}
average=sum/24;
System.out.println("AVERAGE COUNT IN DECEMBER21  "+average);


//DAY7

j=6;
sum=0;
for(i=0;i<12;i++)
{
        for(k=0;k<24;k++)
        {
                sum= sum+counters[i][j][k];
        }
}
average=sum/(12*24);
System.out.println("AVERAGE COUNT ON EVERY MONTH DAY7  "+average);

//DAY 29

j=28;
sum=0;
int leap=0;
for(i=0;i<12;i++)
{
        if(leap==0)
        {
        if(i!=1)
        {
        for(k=0;k<24;k++)
        {
                sum= sum+counters[i][j][k];
        }
        }
        }
        else
        {
                for(k=0;k<24;k++)
                {
                sum= sum+counters[i][j][k];
```

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            }
        }
    }
if(leap==0)
average=sum/(11*24);
else
average=sum/(12*24);
System.out.println("AVERAGE COUNT ON EVERY MONTH DAY29   "+average);


//HOURS FROM 10 TO 18

sum=0;
for(i=0;i<12;i++)
{
        for(j=0;j<monthDays[i];j++)
        {
                for(k=9;k<18;k++)
                {
                        sum= sum+counters[i][j][k];
                }
        }
}
average=sum/(365*9);
System.out.println("AVERAGE COUNT ON EVERY 10 TO 18 HRS   "+average);


//DAYS OF 5TH,7TH,12TH,16NTH,23RD

sum=0;
for(i=0;i<12;i++)
{
        for(j=0;j<monthDays[i];j++)
        {
                if(j==4 || j==6 || j==11 || j==15 || j==22)
                {
                        for(k=7;k<12;k++)
                        {
                                sum=sum+counters[i][j][k];
                        }
                        for(k=15;k<24;k++)

//and 16 to 24

                        {
                                sum=sum+counters[i][j][k];
                        }
                }
        }
}
average=sum/(12*5*14);
System.out.println("AVERAGE COUNT ON 5TH,7TH,12TH,16NTH,23RD OF HOUR 8 TO 12 AND 16
TO 24: "+average);

//JULY MONTH
```

```java
System.out.println("ON THE MONTH OF JULY .....");
sum=0;
i=6;
for(j=0;j<monthDays[i];j++)
{
        for(k=0;k<24;k++)
        {
                sum=sum+counters[i][j][k];
        }
        average=sum/24;
        System.out.println("JULY"+(j+1)+"  : "+"TOTAL = "+sum+" AVERAGE = "+average);
        sum=0;
}

//TOTAL AVERAGE OF THE YEAR

int total=0;
sum=0;
for(i=0;i<12;i++)
{
        for(j=0;j<monthDays[i];j++)
        {
                for(k=0;k<24;k++)
                {
                        sum=sum+counters[i][j][k];
                        total=total+counters[i][j][k];
                }
        }
        average=sum/(monthDays[i]*24);
        System.out.println(" MONTH "+(i+1)+" :   "+" TOTAL = "+sum+"\n"+ "AVERAGE = "+average);
        sum=0;
}
average=total/(365*24);
System.out.println("TOTAL AND AVERAGE OF YEAR "+year+" IS "+total+" & "+average);
    }
}
```

OUTPUT

```
75
91
54
98
54
70
85
59
96
69
85
90
74
58
99
80
59
AVERAGE COUNT IN JANUARY   74
AVERAGE COUNT IN DECEMBER21   73
AVERAGE COUNT ON EVERY MONTH DAY7   74
AVERAGE COUNT ON EVERY MONTH DAY29   74
```

```
ON THE MONTH OF JULY .....
JULY1   : TOTAL = 1859 AVERAGE = 77
JULY2   : TOTAL = 1665 AVERAGE = 69
JULY3   : TOTAL = 1812 AVERAGE = 75
JULY4   : TOTAL = 1796 AVERAGE = 74
JULY5   : TOTAL = 1859 AVERAGE = 77
JULY6   : TOTAL = 1700 AVERAGE = 70
JULY7   : TOTAL = 1746 AVERAGE = 72
JULY8   : TOTAL = 1715 AVERAGE = 71
JULY9   : TOTAL = 1803 AVERAGE = 75
JULY10  : TOTAL = 1827 AVERAGE = 76
JULY11  : TOTAL = 1891 AVERAGE = 78
JULY12  : TOTAL = 1831 AVERAGE = 76
JULY13  : TOTAL = 1816 AVERAGE = 75
JULY14  : TOTAL = 1788 AVERAGE = 74
JULY15  : TOTAL = 1648 AVERAGE = 68
JULY16  : TOTAL = 1774 AVERAGE = 73
JULY17  : TOTAL = 1744 AVERAGE = 72
JULY18  : TOTAL = 1850 AVERAGE = 77
JULY19  : TOTAL = 1783 AVERAGE = 74
JULY20  : TOTAL = 1826 AVERAGE = 76
JULY21  : TOTAL = 1821 AVERAGE = 75
JULY22  : TOTAL = 1769 AVERAGE = 73
JULY23  : TOTAL = 1843 AVERAGE = 76
JULY24  : TOTAL = 1682 AVERAGE = 70
JULY25  : TOTAL = 1803 AVERAGE = 75
JULY26  : TOTAL = 1690 AVERAGE = 70
JULY27  : TOTAL = 1775 AVERAGE = 73
JULY28  : TOTAL = 1860 AVERAGE = 77
JULY29  : TOTAL = 1773 AVERAGE = 73
JULY30  : TOTAL = 1731 AVERAGE = 72
JULY31  : TOTAL = 1721 AVERAGE = 71
 MONTH 1 :    TOTAL = 55688
AVERAGE = 74
 MONTH 2 :    TOTAL = 51234
AVERAGE = 73
 MONTH 3 :    TOTAL = 55341
AVERAGE = 74
 MONTH 4 :    TOTAL = 53554
AVERAGE = 74
 MONTH 5 :    TOTAL = 56280
AVERAGE = 75
 MONTH 6 :    TOTAL = 53596
AVERAGE = 74
 MONTH 7 :    TOTAL = 55201
AVERAGE = 74
```

```
 MONTH 1 :    TOTAL = 55688
AVERAGE = 74
 MONTH 2 :    TOTAL = 51234
AVERAGE = 73
 MONTH 3 :    TOTAL = 55341
AVERAGE = 74
 MONTH 4 :    TOTAL = 53554
AVERAGE = 74
 MONTH 5 :    TOTAL = 56280
AVERAGE = 75
 MONTH 6 :    TOTAL = 53596
AVERAGE = 74
 MONTH 7 :    TOTAL = 55201
AVERAGE = 74
 MONTH 8 :    TOTAL = 56007
AVERAGE = 75
 MONTH 9 :    TOTAL = 53238
AVERAGE = 73
 MONTH 10 :    TOTAL = 55850
AVERAGE = 75
 MONTH 11 :    TOTAL = 52915
AVERAGE = 73
 MONTH 12 :    TOTAL = 55895
AVERAGE = 75
TOTAL AND AVERAGE OF YEAR 2016 IS 654799 & 74
```