

PROGRAM: VISITORS COUNT

```
import java.io.BufferedReader;

import java.io.InputStreamReader;

import java.io.FileReader;

import java.io.IOException;

import java.io.FileNotFoundException;

public class Visitors{

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

        BufferedReader bf=new BufferedReader(new FileReader("Visitor.txt"));

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

        int visitors[][][];

        int i,j,k;

        visitors = new int[12][][];

        int days[]={31,29,31,30,31,30,31,31,30,31,30,31};

        for(i=0;i<days.length;i++){

            visitors[i]=new int[ days[i]] [24];

        }

        for(i=0;i<visitors.length;i++){

            for(j=0;j<visitors[i].length;j++){

                for(k=0;k<visitors[i][j].length;k++){

                    visitors[i][j][k]=Integer.valueOf(bf.readLine());

                }

            }

        }

    }

}
```

```
int month,month1,month2,sum=0,day,day1,day2,hour,hour1,hour2,s=0,t,m,n;
```

```
float average;
```

```
System.out.println("ENTER THE CHOICE" );
```

```
int choice=Integer.valueOf(br.readLine());
```

```
switch(choice){
```

```
    case 1:    //GETTING SUM AND AVERAGE FOR SINGLE MONTH
```

```
        System.out.println("ENTER THE MONTH" );
```

```
        month=Integer.valueOf(br.readLine());
```

```
        for(j=0;j<visitors[month].length;j++){
```

```
            for(k=0;k<visitors[month][j].length;k++){
```

```
                sum=sum+(visitors[month][j][k]);
```

```
            }
```

```
        }
```

```
        average=sum/j;
```

```
        System.out.printf("%-10s :%d \n", "SUM",sum);
```

```
        System.out.printf("%-10s :%.2f \n", "AVERAGE",average);
```

```
        sum=0;
```

```
        break;
```

```
    case 2:    //GETTING SUM AND AVERAGE FOR SINGLE DAY
```

```
        System.out.println("ENTER THE DAY" );
```

```
        day=Integer.valueOf(br.readLine());
```

```
        for(i=0;i<visitors.length;i++){
```

```
            for(k=0;k<visitors[i][day].length;k++){
```

```
                sum=sum+(visitors[i][day][k]);
```

```

    }
}

    average=sum/i;

    System.out.printf("%-20s :%d\n", "SUM",sum);

    System.out.printf("%-20s :%.2f\n", "AVERAGE",average );

    sum=0;

    break;

```

case 3: //GETTING SUM AND AVERAGE FOR SINGLE HOUR

```

    System.out.println("ENTER THE HOUR" );

    hour=Integer.valueOf(br.readLine());

    for(i=0;i<visitors.length;i++){

        for(j=0;j<visitors[i].length;j++){

            sum=sum+(visitors[i][j][hour]);

            s++;

        }

    }

    average=sum/s;

    System.out.printf("%-20s :%d\n", "SUM",sum);

    System.out.printf("%-20s :%.2f\n", "AVERAGE",average);

    s=0;

    sum=0;

```

```
break;
```

```
case 4: //GIVING BOUNDARIES FOR MONTHS
```

```
System.out.println("ENTER THE STARTING MONTH" );
```

```
month1=Integer.valueOf(br.readLine());
```

```
System.out.println("ENTER THE ENDING MONTH" );
```

```
month2=Integer.valueOf(br.readLine());
```

```
for(i=month1;i<=month2;i++){
```

```
    for(j=0;j<visitors[i].length;j++){
```

```
        for(k=0;k<visitors[i][j].length;k++){
```

```
            sum=sum+(visitors[i][j][k]);
```

```
        }
```

```
    }
```

```
    s++;
```

```
}
```

```
average=sum/s;
```

```
System.out.printf("%-20s :%d\n", "SUM",sum);
```

```
System.out.printf("%-20s :%.2f\n", "AVERAGE",average);
```

```
sum=0;
```

```
s=0;
```

```
break;
```

```
case 5: //GIVING BOUNDARIES FOR MONTHS AND DAYS
```

```
System.out.println("ENTER THE STARTING MONTH" );
```

```
month1=Integer.valueOf(br.readLine());
```

```
System.out.println("ENTER THE ENDING MONTH" );
```

```
month2=Integer.valueOf(br.readLine());
```

```
System.out.println("ENTER THE STARTING DAY" );
```

```
day1=Integer.valueOf(br.readLine());
```

```
System.out.println("ENTER THE ENDING DAY" );
```

```
day2=Integer.valueOf(br.readLine());
```

```
for(i=month1;i<=month2;i++){
```

```
    for(j=day1;j<=day2;j++){
```

```
        for(k=0;k<visitors[i][j].length;k++){
```

```
            sum=sum+(visitors[i][j][k]);
```

```
        }
```

```
        s++;
```

```
    }
```

```
}
```

```
average=sum/s;
```

```
System.out.printf("%-20s :%d\n", "SUM",sum);
```

```
System.out.printf("%-20s :%.2f\n", "AVERAGE",average);
```

```
sum=0;
```

```
s=0;
```

```
break;
```

case 6: //GIVING BOUNDARIES FOR MONTHS,DAYS AND HOURS

```
System.out.println("ENTER THE STARTING MONTH" );
```

```
month1=Integer.valueOf(br.readLine());
```

```
System.out.println("ENTER THE ENDING MONTH" );
```

```
month2=Integer.valueOf(br.readLine());
```

```
System.out.println("ENTER THE STARTING DAY" );
```

```
day1=Integer.valueOf(br.readLine());
```

```
System.out.println("ENTER THE ENDING DAY" );
```

```
day2=Integer.valueOf(br.readLine());
```

```
System.out.println("ENTER THE STARTING HOUR" );
```

```
hour1=Integer.valueOf(br.readLine());
```

```
System.out.println("ENTER THE ENDING HOUR" );
```

```
hour2=Integer.valueOf(br.readLine());
```

```
for(i=month1;i<=month2;i++){
```

```
    for(j=day1;j<=day2;j++){
```

```
        for(k=hour1;k<=hour2;k++){
```

```
            sum=sum+(visitors[i][j][k]);
```

```

s++;

    }

}

}

average=sum/s;

System.out.printf("%-20s :%d\n", "SUM",sum);

System.out.printf("%-20s :%.2f\n", "AVERAGE",average);

sum=0;

s=0;

break;

```

case 7: //GIVING MULTIPLE BOUNDARIES FOR MONTHS

```

System.out.println("ENTER THE NO OF TESTCASES");

t=Integer.valueOf(br.readLine());

while(t>0){

    System.out.println("ENTER THE STARTING MONTH" );

    month1=Integer.valueOf(br.readLine());

    System.out.println("ENTER THE ENDING MONTH" );

    month2=Integer.valueOf(br.readLine());

    for(i=month1;i<=month2;i++){

        for(j=0;j<visitors[i].length;j++){

            for(k=0;k<visitors[i][j].length;k++){

```

```

sum=sum+(visitors[i][j][k]);
    }
}
s++;
}
t--;
}
average=sum/s;

System.out.printf("%-20s :%d \n", "SUM",sum);
System.out.printf("%-20s :%.2f \n", "AVERAGE",average);
sum=0;
break;

```

case 8: //GIVING MULTIPLE BOUNDARIES FOR DAYS

```

System.out.println("ENTER THE STARTING MONTH" );

month1=Integer.valueOf(br.readLine());

System.out.println("ENTER THE ENDING MONTH" );
month2=Integer.valueOf(br.readLine());

System.out.println("ENTER THE NO OF TESTCASES");
t=Integer.valueOf(br.readLine());

for(i=month1;i<=month2;i++){

while(t>0){

```



```

        System.out.println("ENTER THE STARTING DAY" );

        day1=Integer.valueOf(br.readLine());

        System.out.println("ENTER THE ENDING DAY" );

        day2=Integer.valueOf(br.readLine());

        for(j=day1;j<=day2;j++){

            for(k=0;k<visitors[i][j].length;k++){

                sum=sum+(visitors[i][j][k]);

            }

            s++;

        }

        t--;

    }

}

average=sum/s;

System.out.printf("%-20s :%d\n", "SUM",sum);

System.out.printf("%-20s :%.2f\n", "AVERAGE",average);

sum=0;

break;

```

case 9: //GIVING MULTIPLE BOUNDARIES FOR HOURS

```

System.out.println("ENTER THE STARTING MONTH" );

month1=Integer.valueOf(br.readLine());

```

```
System.out.println("ENTER THE ENDING MONTH" );
```

```
month2=Integer.valueOf(br.readLine());
```

```
System.out.println("ENTER THE STARTING DAY" );
```

```
day1=Integer.valueOf(br.readLine());
```

```
System.out.println("ENTER THE ENDING DAY" );
```

```
day2=Integer.valueOf(br.readLine());
```

```
System.out.println("ENTER THE NO OF TESTCASES");
```

```
t=Integer.valueOf(br.readLine());
```

```
for(i=month1;i<=month2;i++){
```

```
    for(j=day1;j<=day2;j++){
```

```
        while(t>0){
```

```
            System.out.println("ENTER THE STARTING HOUR" );
```

```
            hour1=Integer.valueOf(br.readLine());
```

```
            System.out.println("ENTER THE ENDING HOUR" );
```

```
            hour2=Integer.valueOf(br.readLine());
```

```
            for(k=hour1;k<=hour2;k++){
```

```
                sum=sum+(visitors[i][j][k]);
```

```
                s++;
```

```
            }
```

```
            t--;
```

```
        }
```

```

        }
    }
    average=sum/s;
    System.out.printf("%-20s :%d\n", "SUM",sum);
    System.out.printf("%-20s :%.2f\n", "AVERAGE",average);
    sum=0;
    s=0;
    break;

```

case 10: //GIVING MULTIPLE BOUNDARIES FOR MONTHS,DAYS AND HOURS

```

System.out.println("ENTER THE NO OF TESTCASES");
t=Integer.valueOf(br.readLine());
while(t>0){
    System.out.println("ENTER THE STARTING MONTH" );
    month1=Integer.valueOf(br.readLine());
    System.out.println("ENTER THE ENDING MONTH" );
    month2=Integer.valueOf(br.readLine());
    for(i=month1;i<=month2;i++){
        System.out.println("ENTER THE NO OF TESTCASES");
        m=Integer.valueOf(br.readLine());
        while(m>0){
            System.out.println("ENTER THE STARTING DAY" );
            day1=Integer.valueOf(br.readLine());
            System.out.println("ENTER THE ENDING DAY" );

```

```

        day2=Integer.valueOf(br.readLine());

        for(j=day1;j<=day2;j++){

            System.out.println("ENTER THE NO OF TESTCASES");

            n=Integer.valueOf(br.readLine());

            while(n>0){

                System.out.println("ENTER THE STARTING HOUR" );

                hour1=Integer.valueOf(br.readLine());

                System.out.println("ENTER THE ENDING HOUR" );

                hour2=Integer.valueOf(br.readLine());

                for(k=hour1;k<=hour2;k++){

                    sum=sum+(visitors[i][j][k]);

                    s++;

                }

                n--;

            }

            m--;

        }

        t--;

    }

    average=sum/s;

    System.out.printf("%-20s :%d\n", "SUM",sum);

    System.out.printf("%-20s :%.2f\n", "AVERAGE",average);

    sum=0;

```

```
        s=0;

        break;

    }

}

}
```

OUTPUT:

CASE 1:

```
ENTER THE CHOICE
1
ENTER THE MONTH
4
SUM           :55737
AVERAGE      :1797.00
```

CASE 2:

```
ENTER THE CHOICE
2
ENTER THE DAY
25
SUM           :21251
AVERAGE      :1770.00
```

CASE 3:

```
ENTER THE CHOICE
3
ENTER THE HOUR
12
SUM           :27608
AVERAGE      :75.00
```

CASE 4:

```
C:\Users\student\Desktop\java visitors
ENTER THE CHOICE
4
ENTER THE STARTING MONTH
6
ENTER THE ENDING MONTH
11
SUM                :329473
AVERAGE           :54912.00
```

CASE 5:

```
ENTER THE CHOICE
5
ENTER THE STARTING MONTH
5
ENTER THE ENDING MONTH
9
ENTER THE STARTING DAY
3
ENTER THE ENDING DAY
6
SUM                :35883
AVERAGE           :1794.00
```

CASE 6:

```
ENTER THE CHOICE
6
ENTER THE STARTING MONTH
3
ENTER THE ENDING MONTH
8
ENTER THE STARTING DAY
13
ENTER THE ENDING DAY
18
ENTER THE STARTING HOUR
11
ENTER THE ENDING HOUR
23
SUM                :34853
AVERAGE           :74.00
```

CASE 7:

```
ENTER THE CHOICE
7
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING MONTH
5
ENTER THE ENDING MONTH
9
ENTER THE STARTING MONTH
4
ENTER THE ENDING MONTH
11
SUM                :713445
AVERAGE           :54880.00
```

CASE 8:

```
ENTER THE CHOICE
8
ENTER THE STARTING MONTH
6
ENTER THE ENDING MONTH
11
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING DAY
12
ENTER THE ENDING DAY
28
ENTER THE STARTING DAY
11
ENTER THE ENDING DAY
25
SUM                               :57249
AVERAGE                         :1789.00
```

CASE 9:

```
ENTER THE CHOICE
9
ENTER THE STARTING MONTH
3
ENTER THE ENDING MONTH
7
ENTER THE STARTING DAY
12
ENTER THE ENDING DAY
21
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING HOUR
12
ENTER THE ENDING HOUR
16
ENTER THE STARTING HOUR
5
ENTER THE ENDING HOUR
8
SUM                               :666
AVERAGE                         :74.00
```

CASE 10:

```
ENTER THE CHOICE
10
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING MONTH
1
ENTER THE ENDING MONTH
3
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING DAY
2
ENTER THE ENDING DAY
4
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING HOUR
6
ENTER THE ENDING HOUR
8
ENTER THE STARTING HOUR
3
```

```
ENTER THE ENDING HOUR
5
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING HOUR
3
ENTER THE ENDING HOUR
6
ENTER THE STARTING HOUR
3
ENTER THE ENDING HOUR
6
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING HOUR
2
ENTER THE ENDING HOUR
6
ENTER THE STARTING HOUR
4
ENTER THE ENDING HOUR
6
ENTER THE STARTING DAY
2
```



```
ENTER THE ENDING DAY
6
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING HOUR
6
ENTER THE ENDING HOUR
8
ENTER THE STARTING HOUR
3
ENTER THE ENDING HOUR
7
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING HOUR
1
ENTER THE ENDING HOUR
5
ENTER THE STARTING HOUR
2
ENTER THE ENDING HOUR
4
ENTER THE NO OF TESTCASES
2
```

```
ENTER THE STARTING HOUR
6
ENTER THE ENDING HOUR
8
ENTER THE STARTING HOUR
12
ENTER THE ENDING HOUR
13
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING HOUR
12
ENTER THE ENDING HOUR
13
ENTER THE STARTING HOUR
4
ENTER THE ENDING HOUR
9
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING HOUR
11
ENTER THE ENDING HOUR
13
ENTER THE STARTING HOUR
```

```
ENTER THE STARTING HOUR
12
ENTER THE ENDING HOUR
13
ENTER THE STARTING HOUR
4
ENTER THE ENDING HOUR
9
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING HOUR
11
ENTER THE ENDING HOUR
13
ENTER THE STARTING HOUR
2
ENTER THE ENDING HOUR
5
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING DAY
3
ENTER THE ENDING DAY
5
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING HOUR
3
ENTER THE ENDING HOUR
8
ENTER THE STARTING HOUR
6
ENTER THE ENDING HOUR
9
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING HOUR
2
ENTER THE ENDING HOUR
6
ENTER THE STARTING HOUR
2
ENTER THE ENDING HOUR
8
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING HOUR
12
ENTER THE ENDING HOUR
14
ENTER THE STARTING HOUR
2
ENTER THE ENDING HOUR
```

```
ENTER THE ENDING HOUR
8
ENTER THE STARTING DAY
2
ENTER THE ENDING DAY
5
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING HOUR
11
ENTER THE ENDING HOUR
13
ENTER THE STARTING HOUR
1
ENTER THE ENDING HOUR
6
ENTER THE NO OF TESTCASES
2
ENTER THE STARTING HOUR
12
ENTER THE ENDING HOUR
13
ENTER THE STARTING HOUR
12
ENTER THE ENDING HOUR
14
ENTER THE NO OF TESTCASES
1
ENTER THE STARTING HOUR
3
ENTER THE ENDING HOUR
6
ENTER THE NO OF TESTCASES
1
ENTER THE STARTING HOUR
5
ENTER THE ENDING HOUR
7
ENTER THE NO OF TESTCASES
1
ENTER THE STARTING DAY
2
ENTER THE ENDING DAY
4
ENTER THE NO OF TESTCASES
1
ENTER THE STARTING HOUR
3
ENTER THE ENDING HOUR
5
ENTER THE NO OF TESTCASES
1
ENTER THE STARTING HOUR
5
ENTER THE ENDING HOUR
7
```

```
5
ENTER THE ENDING HOUR
7
ENTER THE NO OF TESTCASES
1
ENTER THE STARTING HOUR
2
ENTER THE ENDING HOUR
9
ENTER THE STARTING MONTH
1
ENTER THE ENDING MONTH
2
ENTER THE NO OF TESTCASES
1
ENTER THE STARTING DAY
2
ENTER THE ENDING DAY
3
ENTER THE NO OF TESTCASES
1
ENTER THE STARTING HOUR
2
ENTER THE ENDING HOUR
4
ENTER THE NO OF TESTCASES
1
ENTER THE STARTING HOUR
4
ENTER THE ENDING HOUR
6
ENTER THE NO OF TESTCASES
1
ENTER THE STARTING DAY
3
ENTER THE ENDING DAY
4
ENTER THE NO OF TESTCASES
1
ENTER THE STARTING HOUR
6
ENTER THE ENDING HOUR
7
ENTER THE NO OF TESTCASES
1
ENTER THE STARTING HOUR
6
ENTER THE ENDING HOUR
8
SUM                :10194
AVERAGE            :74.00
```