

```

public class Month {
    private String name;
    private int days[];

    public Month(String name, int size) {
        this.name = name;
        days = new int[size];
    }

    public String getMonth() {
        return name;
    }

    public void setMonth(String name) {
        this.name = name;
    }

    public void setDays(int[] days) {
        this.days = days;
    }

    public int getDays() {
        return days.length;
    }

    public void setTemps(int day, int temp){
        days[day] = temp;
    }

    public int getTemp(int day){
        return days[day];
    }
}

```

```

import java.util.Scanner;

```

```

public class App {
    public static void main(String[] args) {
        Month Year[] = new Month[12]; //create array
        Year[0] = new Month("January", 31); //assigns appropriate names &
num of days to each month
        Year[1] = new Month("February", 28);
        Year[2] = new Month("March", 31);
        Year[3] = new Month("April", 30);
        Year[4] = new Month("May", 31);
        Year[5] = new Month("June", 30);
        Year[6] = new Month("Jule", 31);
        Year[7] = new Month("August", 31);
        Year[8] = new Month("September", 30);
    }
}

```

```

        Year[9] = new Month("October", 31);
        Year[10] = new Month("November", 30);
        Year[11] = new Month("December", 31);
        Scanner sc = new Scanner(System.in);
        for (int i = 0; i < 2; i++) { //Create loop in the program to allow
the temps for Jan & Feb to be entered
            for (int j = 0; j < Year[i].getDays(); j++) {
                int temp = sc.nextInt();
                Year[i].setTemps(j, temp);
            }
        }
        //Display temp on 3rd Jan & 15th Feb
        System.out.println(Year[0].getTemp(2));
        System.out.println(Year[0].getTemp(14));
        highest(Year[0], Year[1]);
        System.out.println(avg(Year[0])); //Find avg temp in a specified
month
        System.out.println(minTemp(Year[0])); //Find range of temps in a
specified month (highest - lowest temp)
        System.out.println(maxTemp(Year[0]));
        System.out.println(number(Year[0], 10)); //Find number of days in a
specified month that the temp was higher than a specified value
    }

    //Write a method to display the highest temp in the 2 months & date on
which it occurred
    public static void highest(Month m1, Month m2){
        int maxTemp = m1.getTemp(0);
        String month = m1.getMonth();
        int index = 0;
        for (int i = 1; i < m1.getDays(); i++) {
            if(m1.getTemp(i) > maxTemp){
                maxTemp = m1.getTemp(i);
                index = i;
            }
        }
        for (int i = 0; i < m2.getDays(); i++) {
            if(m2.getTemp(i) > maxTemp){
                maxTemp = m2.getTemp(i);
                month = m2.getMonth();
                index = i;
            }
        }
        System.out.println(month + " " + (index + 1) + " " + maxTemp);
    }

    public static int avg(Month m){
        int average = 0;
        for (int i = 0; i < m.getDays(); i++) {
            average += m.getTemp(i);
        }
        return average / m.getDays();
    }

    public static int minTemp(Month m){

```

```

        int min = m.getTemp(0);
        for (int i = 1; i < m.getDays(); i++) {
            if(min > m.getTemp(i)){
                min = m.getTemp(i);
            }
        }
        return min;
    }

    public static int maxTemp(Month m){
        int max = m.getTemp(0);
        for (int i = 1; i < m.getDays(); i++) {
            if(max < m.getTemp(i)){
                max = m.getTemp(i);
            }
        }
        return max;
    }

    public static int number(Month m, int temp){
        int count = 0;
        for (int i = 0; i < m.getDays(); i++) {
            if(m.getTemp(i) > temp){
                count++;
            }
        }
        return count;
    }
}

```