

- 11 Students in a class are recording the amount of time in minutes spent in front of a screen for each day of the week.

The one-dimensional (1D) array `StudentName[]` contains the names of the students in the class.

The two-dimensional (2D) array `ScreenTime[]` is used to input the number of minutes on each day spent in front of a screen.

The position of each student's data in the two arrays is the same. For example, the student stored at index 10 in `StudentName[]` and `ScreenTime[]` is the same.

The variable `ClassSize` contains the number of students in the class.

`DECLARE StudentName : ARRAY[1: ClassSize] OF STRING`

Write a program that meets these requirements:

- allows all the students to enter their daily minutes of screen times for the past week
- calculates the total number of minutes of screen time for each student in the week
- counts, for each student, the number of days with more than 300 minutes of screen time
- calculates the average weekly minutes of screen time for the whole class
- finds the student with the lowest weekly minutes of screen time
- outputs for each student:
 - name
 - total week's screen time in hours and minutes
 - number of days with more than 300 minutes of screen time
- outputs the average weekly minutes of screen time for the whole class
- outputs the name of the student with the lowest weekly screen time.

You must use pseudocode or program code and add comments to explain how your code works. All inputs and outputs must contain suitable messages.

Assume that the array `StudentName[]` and the variable `ClassSize` already contain the required data.

You do **not** need to declare any arrays or variables; you may assume that this has already been done.

```

DECLARE Total : INTEGER
ClassTotal ← 0
Lowest-Minutes ← 99999
  
```

```

FOR s-counter ← 1 TO ClassSize // loop for each student
  
```

```

    Total ← 0
    Day-over-300 ← 0
  
```

```

    FOR day-counter ← 1 TO 5
      
```

```

        OUTPUT "Please enter minutes for day", day-counter
      
```

```

        INPUT Minutes
      
```

```

        UNTIL Minutes >= 0
        ScreenTime[s-counter, day-counter] ← Minutes
      
```

```

        Total ← Total + Minutes // running total for student
      
```

```

        IF Minutes > 300 THEN
      
```

```

            Day-over-300 ← Day-over-300 + 1
          
```

```

        END IF
      
```

```

    NEXT day-counter
  
```

```

  IF Total < Lowest-Minutes THEN
    Lowest-Minutes ← Total
    LowestStudent ← s-counter
  
```

```

IF Total < Lowest_Minutes THEN
    Lowest_Minutes ← Total
ENDIF →
ClassTotal ← ClassTotal + Total
OUTPUT StudentName[s-counter]
OUTPUT "Total screen time this week:"
    DIV (Total, 60), "hours",
    MOD (Total, 60), "minutes"
OUTPUT "Days with more than 300 mins
    of screen time", Day-over-300
//end of loop for each student
NEXT s-counter
// After all students have entered details
average = ClassTotal / ClassSize
OUTPUT "Average weekly minutes for the
    class", average
OUTPUT "Lowest weekly screen time
    award goes to "
    StudentName [Lowest_Student]

```