

Project 6: Going to Extremes

Project 6:

- Write a program that reads up to ten integer values from the keyboard and outputs their extreme (maximum and minimum) and average values.
 - Show the average with four decimal places, using the DecimalFormatter class.
 - Trailing zeroes will not be shown.
- If the user enters a zero, stop asking for inputs and output the minimum, maximum, and average of the values that have been entered prior to that point.
 - If the first input is zero, output an error message.
- You may assume that the user will enter only valid integer values.
 - Validating input values is not required.

Sample Runs

 Your output should be similar in format to that shown in the sample run shown on this and the following slides.

```
Command Prompt
C:\test>
C:\test>
C:\test>javac extremes.java
C:\test>java extremes
Enter up to ten integers.
To stop before ten, enter a zero.
Next input: 1
Next input: 1
Next input: 1
Next input: 5
Next input: 5
Next input: 5
Next input: 10
Next input: 10
Next input: 20
Next input: 17
The minimum is 1
The maximum is 20
The average is 7.5
               Note that trailing zeroes
C:\test>_
               are not shown in the
               average.
```

Sample Runs

```
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Command Prompt
C:\test>
C:\test>
C:\test>javac extremes.java
C:\test>java extremes
Enter up to ten integers.
To stop before ten, enter a zero.
Next input: 10
Next input: 20
Next input: 30
Next input: 0
The minimum is 10
The maximum is 30
The average is 20
C:\test>java extremes
Enter up to ten integers.
To stop before ten, enter a zero.
Next input: 1
Next input: 3
Next input: 9
Next input: 0
The minimum is 1
The maximum is 9
The average is 4.3333
C:\test>_
```

Sample Runs

```
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Command Prompt
C:\test>
C:\test>javac extremes.java
C:\test>java extremes
Enter up to ten integers.
To stop before ten, enter a zero.
Next input: 44
Next input: 0
The minimum is 44
The maximum is 44
The average is 44
C:\test>java extremes
Enter up to ten integers.
To stop before ten, enter a zero.
Next input: 0
No inputs were entered Error message
C:\test>_
```

Submission

- Put your Java source file into a folder and zip it.
- Submit your zipped Java source file via Canvas Assignments.
- Project is due by 11:59 PM
 - Sunday, February 14 Sections 001 and 002
 - Monday, February 15 Sections 003 and 004

Ground Rules

- It is OK to discuss the project with other students BUT
 - Do not share your code with other students.
 - Before or after submitting the project.
- Do not copy any other student's code.
 - Or even look at it.
- Do not let anyone copy or examine your code.

Ground Rules

Except for code posted on the class web site

- Do not copy code from the Internet
 - or any other source (other than the textbook.)

- Do not ask for help on an Internet forum.
 - If you need help, ask your instructor or a TA.
 - Come to lab and help sessions.

Write your own code.