

IntAverage.java Testing Behaviours

First, I will test a few numbers in the program, to make sure it runs as intended:

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

```
Microsoft Windows [Version 10.0.19042.867]
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C:\Users\Adam\Documents\TRU\Winter 2021\COMP 1231\Module 3 - Exceptions\Assignment 3> cmd
.\vscode-java-debug-0.32.0\scripts\launcher.bat "C:\Program Files\AdoptOpenJDK\jdk-14.0.2\bin\java.exe"
InExceptionMessages -Dfile.encoding=UTF-8 -cp "C:\Users\Adam\AppData\Roaming\Code\User\workspace
bf\redhat.java\jdt_ws\Assignment 3_9cb6833d\bin" IntAverage "
This program will take your input integer (-2,147,483,648 < int < 2,147,483,647), and pro
Input a valid integer (input 'stop' to quit at anytime): 2
The current running average of user inputs: 2.0
Enter another integer (stop to quit): 4
The current running average of user inputs: 3.0
Enter another integer (stop to quit): 8
The current running average of user inputs: 4.6666665
Enter another integer (stop to quit): 3
The current running average of user inputs: 4.25
Enter another integer (stop to quit): 10
The current running average of user inputs: 5.4
Enter another integer (stop to quit): 5
The current running average of user inputs: 5.3333335
Enter another integer (stop to quit): 10
The current running average of user inputs: 6.0
Enter another integer (stop to quit): stop
Code 'stop' entered, program terminating.

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```

First value: current sum

Second value: number of iterations (for calculating average)

$$2 / 1 = 2$$
$$6 / 2 = 3$$
$$14 / 3 = 4.\bar{6}$$
$$17 / 4 = 4.25$$
$$27 / 5 = 5.4$$
$$32 / 6 = 5.\bar{3}$$
$$42 / 7 = 6$$

Now, I will try a few invalid inputs, interspaced with valid integer inputs, to make sure that the catch clause is working correctly:

[illegible]

Since the only method applied is `parseInt()`, any character that is not a valid integer (char, double, float, or string) triggers the `IOException`, and the program continues to run unimpeded.