## 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]
(c) 2020 Microsoft Corporation. All rights reserved.
                                                                                              First value: current sum
C:\Users\Adam\Documents\TRU\Winter 2021\COMP 1231\Module 3 - Exceptions\Assignment 3> cmc
                                                                                              Second value: number of iterations (for calculating
.vscode-java-debug-0.32.0\scripts\launcher.bat "C:\Program Files\AdoptOpenJDK\jdk-14.0.2
InExceptionMessages -Dfile.encoding=UTF-8 -cp "C:\Users\Adam\AppData\Roaming\Code\User\wc
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 program
Input a valid integer (input 'stop' to quit at anytime): 2
                                                                                              2/1 = 2
The current running average of user inputs: 2.0
Enter another integer (stop to quit): 4
                                                                                              6/2 = 3
The current running average of user inputs: 3.0
Enter another integer (stop to quit): 8
                                                                                              14/3 = 4.\overline{6}
The current running average of user inputs: 4.6666665
Enter another integer (stop to quit): 3
                                                                                              17 / 4 = 4.25
The current running average of user inputs: 4.25
Enter another integer (stop to quit): 10
                                                                                              27 / 5 = 5.4
The current running average of user inputs: 5.4
Enter another integer (stop to quit): 5
                                                                                              32/6 = 5.\overline{3}
The current running average of user inputs: 5.3333335
Enter another integer (stop to quit): 10
                                                                                              42 / 7 = 6
The current running average of user inputs: 6.0
Enter another integer (stop to quit): stop
Code 'stop' entered, program terminating.
C:\Users\Adam\Documents\TRU\Winter 2021\COMP 1231\Module 3 - Exceptions\Assignment 3>
```

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

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                          2: Java Process Console V
C:\Users\Adam\Documents\TRU\Winter 2021\COMP 1231\Module 3 - Exceptions\Assignment 3> cmd /C "c:\Users\Adam\.vscode\ex
.vscode-java-debug-0.32.0\scripts\launcher.bat "C:\Program Files\AdoptOpenJDK\jdk-14.0.2.12-hotspot\bin\java.exe" -XX:InExceptionMessages -Dfile.encoding=UTF-8 -cp "C:\Users\Adam\AppData\Roaming\Code\User\workspaceStorage\c27f1b9ae600bc
bf\rednat.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 provide a running average.
Input a valid integer (input 'stop' to quit at anytime): integer
Input integer is too large, or not an integer: integer
Enter another integer (stop to quit): 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): 2.5
Input integer is too large, or not an integer: 2.5
Enter another integer (stop to quit): 7
The current running average of user inputs: 4.3333335
Enter another integer (stop to quit): Stop
Input integer is too large, or not an integer: Stop
Enter another integer (stop to quit): 10
The current running average of user inputs: 5.75
Enter another integer (stop to quit):
Input integer is too large, or not an integer:
Enter another integer (stop to quit): []
Input integer is too large, or not an integer: []
Enter another integer (stop to quit): @3
Input integer is too large, or not an integer: @3
Enter another integer (stop to quit): ^R
Input integer is too large, or not an integer:
Enter another integer (stop to quit): 4
The current running average of user inputs: 5.4
Enter another integer (stop to quit): stop
Code 'stop' entered, program terminating.
C:\Users\Adam\Documents\TRU\Winter 2021\COMP 1231\Module 3 - Exceptions\Assignment 3>
```

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.