

# System Test Plan for ProcessFile

The text in bold in the **Description** column represents the test inputs to the program. You can stop program execution by pressing Ctrl+C. You will need to fill in your Actual Results and write the two additional tests (highlighted in **yellow**).

Test ID	Description	Expected Results	Actual Results
Test no filename given from command line  Author: Dr. Schmidt	<i>Execute program (from Lab14 directory) using the following command:</i>  java -cp bin ProcessFile	Usage: java -cp bin ProcessFile input_filename	Usage: java -cp bin ProcessFile input_filename
Test invalid filename for a file that doesn't exist  Author: Dr. Schmidt	<i>Preconditions:</i> test-files/does-not-exist.txt  <i>Execute program (from Lab14 directory) using the following command:</i>  java -cp bin ProcessFile test-files/does-not-exist.txt	Exception in thread "main" java.io.FileNotFoundException: test-files/does-not-exist.txt (No such file or directory)  <i>(Note from Dr. Schmidt: Note the exception output may be slightly different if on Windows or Linux machine.)</i>	Exception in thread "main" java.io.FileNotFoundException: test-files/does-not-exist.txt (No such file or directory)
Test file with no integers  Author: Dr. Schmidt	<i>Preconditions:</i> <a href="#">Contents of test-files/csc116.txt as shown below</a>  <i>Execute program (from Lab14 directory) using the following command:</i>  java -cp bin ProcessFile test-files/csc116.txt	No integers.	No integers.
Test file with strings and a single integer  Author: Dr. Schmidt	<i>Preconditions:</i> <a href="#">Contents of test-files/csc116-title.txt as shown below</a>  <i>Execute program (from Lab14 directory) using the following command:</i>  java -cp bin ProcessFile test-files/csc116-title.txt	Maximum = 116 Minimum = 116 Sum = 116 Count = 1 Average = 116.0	Maximum = 116 Minimum = 116 Sum = 116 Count = 1 Average = 116.0
Test ID	Description	Expected Results	Actual Results

<p>Test file 1 with random characters (including digits), positive integers, negative integers, zero, decimal point numbers, and symbols</p> <p>Auther: Anthony Du and Bowen Deng</p>	<p><i>Preconditions:</i> Content of test-files/system-test1.txt</p> <p><i>Execute program (from Lab14 directory) using the following command:</i></p> <p>java -cp bin ProcessFile test-files/system-test1.txt</p>	<p>Maximum = 928 Minimum = -100 Sum = 1474 Count = 4 Average = 368.0</p>	<p>Maximum = 928 Minimum = -100 Sum = 1474 Count = 4 Average = 368.0</p>
<p>Test file 2 with random characters (including digits), positive integers (with positive sign), negative integers, zero, decimal point numbers, and symbols</p> <p>Auther: Anthony Du and Bowen Deng</p>	<p><i>Preconditions:</i> Content of test-files/system-test2.txt</p> <p><i>Execute program (from Lab14 directory) using the following command:</i></p> <p>java -cp bin ProcessFile test-files/system-test2.txt</p>	<p>Maximum = 3257841 Minimum = -42985 Sum = 3267293 Count = 4 Average = 816823.0</p>	<p>Maximum = 3257841 Minimum = -42985 Sum = 3267293 Count = 4 Average = 816823.0</p>

## File Contents

### Contents of csc116.txt

An introductory course in computing in Java. Emphasis on algorithm development and problem solving. Careful and methodical development of Java applications from specifications; documentation and style; appropriate use of control structures; classes and methods; data types and data abstraction; object-oriented programming and design; software testing.

### Contents of csc116-title.txt

CSC 116 Introduction to Computing - Java

### Contents of system-test1.txt

rhq4i3cby57 f8c24T5Q87FGV 646 hq38t4f57i4by4  
3trfc7fbqt3w6r 928 wehjrg hvcewqcr84ufyr -100 friw3yht4gfb7yg4we 0  
qtr no3efr87byc4qeorw8btvfyc34e 3.5 rhgq347iwbcirvyt3 .,faem,es,lpuip].ol,p\.;[.=]

### Contents of system-test2.txt

4yu3ift7yvq8fb3t5g gh ,mt[|;i.p;,900.,olpp]qhc23ct4i8gyw q3u4tcb3q4ewbt  
3257841 +52437 q43vueywrtbtryg5wvub 0.2351 0 -42985 dfhqw348oircygw.qerfv,q3lkeafj 7\*7 7+7