

Practical Test 2 – Test One

Time: 45 minutes

Ambulance Printing

Write a program to read in a text file and output its contents to the standard output with every line reversed.

For example, “hello world” becomes “dlrow olleh”.

Your program must use a single command-line parameter to provide the name of the file to process. Command-line parameters are stored in the *args* parameter of the main method.

Hint: The `charAt` method of the `String` class could be useful.

You may consult your paper notes and textbook and you may consult the Java API on the Scilab machines (located under `N:\LABSW95\`).

You may NOT use a search engine or consult any other Web/electronic resources (including Vula) or files on your flash disk, hard drive, etc.

It is required that you comment the entire program.

Submit the Java source file(s) to the Automatic Marker on Vula using a zip file – your main program must be called **Test1Driver.java**. Ensure that you submit your file even if your program does not work as you cannot be awarded part marks if there is no submission!

For the practical test, the marks awarded by the Automatic Marker only tell you if your program works – your submission will be marked by a tutor.

Marking Guide:

- *Correctness: Program compiles: 10%, File input :25%, Processing: 25%*
- *Comments (Documentation): 40%*

Practical Test 2 – Test Two

Time: 45 minutes

Headline Creator

Write a program to read in a text file and output its contents to the standard output with every word capitalised.

For example, “hello world” becomes “Hello World”.

Your program must use a single command-line parameter to provide the name of the file to process. Command-line parameters are stored in the *args* parameter of the main method.

Hint: The `charAt` method of the `String` class and the `toUpperCase` method of the `Character` class could be useful.

Hint: A new word starts after a space or at the beginning of a line.

You may consult your paper notes and textbook and you may consult the Java API on the Scilab machines (located under `N:\LABSW95\`).

You may NOT use a search engine or consult any other Web/electronic resources (including Vula) or files on your flash disk, hard drive, etc.

It is required that you comment the entire program.

Submit the Java source file(s) to the Automatic Marker on Vula using a zip file – your main program must be called **Test2Driver.java**. Ensure that you submit your file even if your program does not work as you cannot be awarded part marks if there is no submission!

For the practical test, the marks awarded by the Automatic Marker only tell you if your program works – your submission will be marked by a tutor.

Marking Guide:

- *Correctness: Program compiles: 10%, File input :25%, Processing: 25%*
- *Comments (Documentation): 40%*

Practical Test 2 – Test Three

Time: 45 minutes

un-SMS-er

Write a program to read in a text file and output its contents to the standard output, with every occurrence of “u” replaced with “you” and every occurrence of “U” replaced with “YOU”.

For example, “u're groovy” becomes “you're groovy”.

Your program must use a single command-line parameter to provide the name of the file to process. Command-line parameters are stored in the *args* parameter of the main method.

Hint: The `charAt` method of the `String` class could be useful.

You may consult your paper notes and textbook and you may consult the Java API on the Scilab machines (located under `N:\LABSW95\`).

You may NOT use a search engine or consult any other Web/electronic resources (including Vula) or files on your flash disk, hard drive, etc.

It is required that you comment the entire program.

Submit the Java source file(s) to the Automatic Marker on Vula using a zip file – your main program must be called **Test3Driver.java**. Ensure that you submit your file even if your program does not work as you cannot be awarded part marks if there is no submission!

For the practical test, the marks awarded by the Automatic Marker only tell you if your program works – your submission will be marked by a tutor.

Marking Guide:

- *Correctness: Program compiles: 10%, File input :25%, Processing: 25%*
- *Comments (Documentation): 40%*