Closed Lab #2:
Hello (Again) World!

1 Overview

The purpose of this closed lab is two-fold. First, you will gain some experience working with the Eclipse integrated development environment (IDE). This includes working with projects and workspaces, using the editor to develop classes, defining execution configurations, and running programs. Second, you will be introduced to Java arrays and practice using basic iteration constructs.

2 Requirements

The requirements of this closed lab mirror those from your previous lab. As before, you are required to create two versions of the basic “Hello World!” application, each defined in a separate package. This time, however, all of your work must be done in Eclipse. The specific implementation requirements are as follows:

- The first application must be implemented within a class named `HelloWorld1`. This class must be contained within the package `cu.cs.cpsc215.helloworld1`. The application should simply print “Hello World!” and terminate.

- The second application is slightly more complicated. It must be implemented within a class named `HelloWorld2` and be contained within the package `cu.cs.cpsc215.helloworld2`. At startup, the application should print “Hello World!”. Next, it should print each argument passed at the command-line; each argument should appear on a separate line. Finally, the application should print the total number of command-line arguments and terminate.

To iterate through the `String` objects contained in the `args` argument passed to `main()`, simply apply standard C-style iteration constructs. To determine how many elements are in the `args` array, note that all arrays in Java include a special field named `length` that indicates how many entries are contained within the array. Hence, `args.length` indicates how many arguments were passed at the command-line.

Finally, you are required to create two execution configurations, one for each of your applications. The first configuration should be named “Basic Configuration” and execute `HelloWorld1`. The second configuration should be named “Advanced Configuration” and execute `HelloWorld2`. This configuration must pass at least 3 command-line arguments to the application.

3 Grading

To receive full credit for this lab, you must demonstrate that you have satisfied the above requirements by running your applications using the two execution configurations. When you think you are ready, ask one of the TAs to check your solution. When they have checked your name off of their list, you are free to leave. If you are unable to complete the lab before the end of the period, but have made a reasonable attempt, you will receive 1/2 credit for the day. If the TA feels that...
you have not made a reasonable attempt, you will not receive any credit for your participation. This judgment is entirely at the TA’s discretion.

4 Collaboration

You must complete this lab on your own. However, you are allowed to discuss the problem and solution with exactly one other classmate, but only if you get stuck. Choose wisely. Bad partners are bad news.