1   Introduction

0. Conventions. The PrP is denoted by `prp`. Let the last four digits of your NJIT ID (NOT YOUR SSN) be `WXYZ`. Memorize them! Go to `my.njit.edu` to find them out! **The symbol _ we are using is the underscore symbol, not the minus/dash - symbol.** Java detests dashes and prefers underscores in identifiers.

    RULE-1. Email-Addresses. Utilize the three email addresses as shown below. Use of any other email address will lead to rejection of your submission and 0 points assigned to `prp`. The three email addresses that must be utilized during submission are as follows.
    RULE-1-a. Grader's Email: `Check the course web-page under Assistant's E-mail`
    RULE-1-b. Instructor's Email: `alexg+cs610@njit.edu` (also under Course E-mail.)
    RULE-1-c. Yourself: CC the email to YOUR NJIT Email address (DO NOT COMPLAIN otherwise).

    RULE 2: Submission preparation and testing, archive to submit, files and their names. Read carefully all of this handout to observe naming and comment conventions and testing guidelines involving the dearchiving of the archive you will submit, compilation and testing on afs machines using testing instances created on those afs machines (manipulating text files on Windows or MAC-OSX can cause newline, linefeed etc problems) and subsequently evaluating the code (eg Sections 2, 3, 4, and 5). The only permissible archive formats are `zip` or `tar`. Thus your submission will contain a `prp_WXYZ.zip` or `prp_WXYZ.tar` attachment.
    The archive contains ALL the files of ALL options submitted. Make sure it DOES NOT include directories/folders or subdirectories hidden or not, or java .class/.jar files, or other executable/binary files. Abide to the naming conventions of Section 2.
    A single text file named `prp_WXYZ.txt` in the archive contains either a
"HANDOUT 2 ADHERED; NO BUGS TO REPORT"
in capital case as shown (no quotation marks needed), or compilation and execution instructions, a bug report and other useful information for the grader to read.

    RULE 3: Prepare email, subject line, and submit. Formulate the archive containing all options that you plan to do, and type the three email addresses specified in RULE 1. The email MUST have a SUBJECT LINE with three space separated words: `cs610 WXYZ prp`. Attach the archive to the email. Press the send button to submit. **We acknowledge emails promptly and if received during regular hours, rather quickly. ONLY ONE SUBMISSION EMAIL: PLAN CAREFULLY.**

    RULE 4: Submissions that deviate from RULEs 1,2, 3 get 0 points.

2   File/Function/Class Names

Every file, class name or function name must end with the last four digits of your ID. So if we specify in an option that you need to build a class in Java named say `henc` we in fact mean that your class should be `hencWXYZ` or `henc_WXYZ` stored in say `hencWXYZ.java` or `henc_WXYZ.java` respectively.

3 The first line(s) of every file you submit

Every file name you submit must identify your authoring of the work submitted. Thus if i were you, I would have written something like.

```
/* ALEX GERBESSIOTIS    cs610 WXYZ prp   */
or
// ALEX GERBESSIOTIS    cs610 WXYZ prp
```

4 Programming Project: Testing and Grading

4.1 Read requirements carefully. All options require **command line processing** and **file-based input and output**. If you are not familiar with dealing with them figure this out early in the semester and preferably by the midterm. Submissions that cannot handle command line processing or file-based input/output correctly risk of getting 0 points as ordinary testing will not work and the onus would be on you to provide detailed bug information.

4.2 Testing and Debugging. Make sure your code dearchives (no sub/directories/folders created) compiles and runs on an AFS machine such as `afsconnect1.njit.edu`, `afsconnect2.njit.edu` or `osl11.njit.edu`. This also means you should edit text files, if needed, on AFS using AFS editing tools; avoid remote editing. Do a `gcc -v` or `g++ -v` to confirm and report in the .txt file the version of C/C++ compiler used or similarly `javac -version` or `java -version`. Versions available on afs are found with a `module avail` and loaded with say a `module load gcc/4.9.2`. If compilation is to proceed in a certain file sequence add a note into the `prp_WXYZ.txt` file.

[Note: DO NOT DO testing 'remotely' using 'software of the remote platform' to edit files on 'AFS'. If you do not know what a newline becomes in Linux/Unix, Windows, MAC-OSX, be prepared for nasty surprises.]

4.3 Files types to submit. C or C++ files with `.c` or `.h` or `.cc` or `.cpp` or Java files with `.java` are acceptable. A single text file `prp_WXYZ.txt` must be included. Minimally it includes the text described in RULE-2 "HANDOUT 2 ADHERED; NO BUGS TO REPORT"

If it is missing, you may end up getting 0 points if your code has bugs. The more information is available in the .txt file the less chances you have to get a 0.

4.4 Files types or directories NEVER to submit. Inclusion of binary files (.jar, .class, etc) will penalize you 50 points. So will the existence of directories/folders or subdirectories/folders.

5 Grading/Evaluating

5.1 No partial credit will be given to submitted code that does not satisfy the previous guidelines. Moreover compliance to the specifications of `prp` is expected including command-line processing and file-based input/output. If we tell you to implement something per class requirements a deviation will get you a 0. No partial credit if the .txt file does not list bug(s).

5.2 Default Testing Instances and Grading. The grader will first decide and create testing instance(s) and grade your submission based on whether it passes successfully or not those testing instances using the specified interface (eg command-line processing with file-based input/output). If your code does not pass any of these testing instances, it will get 0 points, unless there is a detailed bug report that YOU HAVE PROVIDED in `prp_WXYZ.txt`. Any information you provide there, it will help the grader to test your code on some reasonable inputs consistent with the default ones used for everybody else. If no information is provided by you, the grader will NOT read your code.

5.3 Emailing. The grader will email you your PrP grade; you have 5 working days from the day of receipt to contest the score to the grader or the instructor.

Neither the instructor nor the grader will answer questions of the type: `How do i debug a program? What is a segmentation violation?`