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Programming Guidelines Handout 2

1 Introduction

1a. Email. The MiniProject (mp from now on) specifies all email addresses needed. Use them. Do not send an email to any other variation of an email address, or your submission will NOT BE ACCEPTED and you will get 0 points. YOU HAVE BEEN WARNED. The instructor's email address is in Handouts 0 and 1.
1b. Conventions. For the remainder we assume that the last four digits of your NJIT ID (NOT YOUR SSN) are WXYZ. The last four digits of your NJIT ID will also be used in the in-class exams. Memorize them! Even if you are a Rutgers student, you still have an NJIT ID. The NJIT grading system records NJIT IDs; so login to my.njit.edu to get your NJIT ID. **The symbol _ we are using is the underscore symbol, not the minus/dash - symbol.** Java hates dashes and prefers underscores in identifiers.

Checklist for submitting a MiniProject

0: Use your NJIT email. Before you submit anything make sure that the archive (as specified below) unfolds, compiles, runs, and works on either afsconnect1.njit.edu or afsconnect2.njit.edu, or osl11.njit.edu. Tell us so!

1: **Source code only and Archive.** You send us ONE file only (zip or tar only) that is an archive in one email. Name it mp_WXYZ.zip or mp_WXYZ.tar. Make sure it DOES NOT include directories/folders or subdirectories hidden or not, or java .class/.jar files, or other executable/binary files. Thus test your archive by dearchiving it and making sure no directories are created (Apple's OSX has such a tendency). We WANT only SOURCE CODE (including C or C++ header files as needed) and a SINGLE .txt file in a single archive. Thus submit compilation instructions and/or a bug report in the single .txt file named mp_WXYZ.txt or include in it a line saying "NO BUGS reported". But do include one! If we receive your source code in a .docx or .doc file (yes it happened!) you will get an F in the course!

2: **Compose email.** Read the MP (miniproject) but you need to send ONE email message to the Instructor AND the grader AND to yourself! (Read the MiniProject and 1a carefully.) This ONE email MUST CONTAIN BOTH OPTIONS, if you plan to submit two options, in a SINGLE archive file. Prepare the email and attach the relevant information from Step 1: but make sure that the Subject line is structured properly per Step 3: below.

2: **Subject of Email.** Make sure that your email has a **subject line** with three words: cs435 WXYZ mp. Use spaces between the words. All characters in lower-case.

4: **Send email.** When you are done with the composition of your email, and have formulated a proper subject line, and included in it all three recipients, transmit it (hit the SEND button or whatever it is called). By CCing your email (you are the third recipient) you may verify TRANSMISSION. **We acknowledge emails promptly and if they are received during regular hours, rather quickly.**

2 File/Class/Function names

Every file or function or class name of yours 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 clrs we in fact mean that your class should be clrsWXYZ or clrs_WXYZ stored in say clrsWXYZ.java or clrs_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.

```
 /* GERBESSIOTIS ALEX   cs435 WXYZ mp  */
 or
 // GERBESSIOTIS ALEX   cs435 WXYZ mp
```

4 Mini 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 directories), compiles and runs on an AFS machine (e.g. `afsconnect1.njit.edu`, `afsconnect2.njit.edu` or `osl11.njit.edu`). Do a `gcc -v` or `g++ -v` to confirm and report in the .txt file the version of compiler used or `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 `mp_WXYZ.txt` file. If our compilation or testing encounters problems on say `afsconnect1.njit.edu`, do not complain. You have been warned!
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 `mp_WXYZ.txt` must be included. Minimally it includes three words: NO BUGS reported. 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. Inclusion of binary files (.jar, .class, etc) will penalize you 50 points.

5 Grading

5.1 No partial credit will be given to submitted code that does not satisfy the previous guidelines including compilation, testing platforms, names, and the existence/information of `mp_WXYZ.txt`. Moreover compliance to the specifications of mp 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 testing instance(s) and grade your submission based on whether it passes successfully or not these 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 `mp_WXYZ.txt`. If your code prompts for a file-name or deviates from the input output interface will also get you a 0.
5.3 Emailing. The grader will email you your MP grade; you have 5 working days from the day of receipt to contest the score to the grader or the instructor.

We respond only to questions strictly related to the clarification of the requirements/semantics/specifications of the mini-project. We do not respond to questions of the form `How do i debug a program? What is segmentation violation?` For such questions contact your CS100, CS113, CS114, CS288 instructor(s)!