1   Introduction

The Guidelines for submitting a programming problem are outlined in this document. For the remainder we assume that you are submitting an implementation outlined in a fictitious Homework numbered K and the last four digits of your NJIT ID (NOT YOUR SOCIAL SECURITY NUMBER) are WXYZ.

- Example Homework K and will appear as HW-K in the remainder.

- Example last four digits of ID are WXYZ and will appear as WXYZ in the remainder.

If you do not know your NJIT ID make sure that you find it out. The NJIT Banner system records your NJIT ID; so login to my.njit.edu to get your NJIT ID. If you provide us with your SSN digits you will confuse us. Your SSN is a private piece of information. **WE WILL NEVER ASK YOU TO REVEAL YOUR SSN TO US!**

Checklist for submitting an assignment

1: **Compose.** Compose an email that will be sent to the designated (in the programming assignment) email address. This might be alg667@cs.njit.edu, pending the NJIT Email transition scheduled for Spring 2013.

2: **Subject.** Make sure that your email has a **subject line** that indicates the assignment number and the last four digits of your id. PA_K_WXYZ is an acceptable subject that indicates a submission of PA number K by a student whose last four digits of his/her ID are WXYZ.

3: **Archive.** If you send more than one file, archive them into a single zip or tar file. If you want to include comments or remarks include a text file named using our example convention PA_K_WXYZ.txt. Name the archive file similarly i.e. PA_K_WXYZ.zip or PA_K_WXYZ.tar. DO NOT USE other archiving or compression formats such as .rar .bz.

4: **Send.** When you are done with the composition of your email, make sure that you pressed a button (or clicked) to transmit the email. CC your email to one of your email accounts to verify TRANSMISSION. Some devices delay transmission. Try to use an NJIT account to send the email; NJIT's spamming filters might block emails from other accounts! **We acknowledge emails promptly and if they are received during regular hours, rather quickly.**

2   Programming

2.1   C, C++ or Java compilation and testing

For C or C++, use ANSI C or C++. For Java, you are not allowed to use classes/packages that are external to the Java language. "C" or "C++" or "Java" is the facility and version of Java available on the NJIT AFS machines (linux machines, effective Spring 2013). We will probably do the testing on AFS. Make sure that your code thus compiles and runs on an AFS machine (e.g. afsconnect1.njit.edu). (If you login to an arbitrary afs10.njit.edu, this is an alias to afsconnect1.njit.edu or afsconnect2.njit.edu or afsconnect3.njit.edu.)

2.2 Function, class names

Make sure that the entry points of your functions adhere to the name, case, and format outlined in the programming assignment description. Thus if you are asked to implement a function `clrssrt`, do so; if you provide a function named `CLRSsrt` or `CLRS_srt` or `clrsSRT` we will ignore it.

2.3 How to name files and the first line of each file you submit

Note that underscores (_) are used throughout in file and function names. For Java and generally Option 2 the name of the file you use might depend on the class names as specified in the corresponding OPTION. Be very careful in following the guidelines; do not deviate from them.

For C or C++ implementations, filenames are not function name dependent. You can put all the required code in one file and name it with the prefix `PA_K_WXYZ` followed by `.c` or `.cc` as needed.

Make sure that the first line of any file you submit identifies you and the assignment in the form of comment lines. An example is given below for a C or C++ or Java style comments.

```
/* Alex. Gerbessiotis  PA_K_WXYZ: ggtest.c  */
or
// Alex. Gerbessiotis  PA_K_WXYZ: ggtest.cc
or
// Alex. Gerbessiotis  PA_K_WXYZ: ggtest.java
```

Java environment

Compilation and testing of your submitted code will most likely take place on an AFS machine using java command line tools.

3 Solutions of Algorithmic Problems

Submit a PDF document (of a Word document), or Microsoft Word, or a Text document. For a text document submission follow the **Latex Conventions** outlined in section C2 of the protected area of the course web-page.