Project Submission Requirements.

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I. Notes

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1. Every project will either be in C++ or Java.
2. Every submission requires "hard copy" and "soft copy".
    a. "hard copy" is your PDF submission. See section II below.
    b. "soft copy" is your ZIP submission. See section III below.
3. Every submission must follow the file naming convention listed in section IV.
4. Every project will be submitted via email to your sections TA email.
    a. Email must follow the email template listed in section VI.
    b. **DO NOT use qc qmail, use non-qc mail, to submit all your projects.**

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II. Hard Copy

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Your PDF should have the following:

1. Cover Page
    a. One page containing: your name, section, project #, project name, and due date.
2. Algorithm Steps
    a. Copy and paste the "main(...)" algorithm steps from the project specs.
3. Illustrations
    a. When required by project specs, include hand drawn illustrations of the algorithm.
4. Source code
    a. Copy and paste your source code.
5. Program output
    a. Copy and paste the "output" and "debug" files your program produces.
    b. If your debug data is more than 10 pages long, do not include the debug.
    c. Format the output so it is easier to read.

NOTE: Do not screenshot any part of your code or output in your PDF. Only copy-paste your work into the hard copy submission.

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III. Soft Copy

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Your ZIP submission should have the following:

1. Source code
    a. Zip only one .cpp or .java file.
        i. Your source code must follow the naming convention specified in this document.
    b. You may not zip more than 1 file.
        i. If you created multiple .cpp or .java files, put all your code into one file.

NOTE: Your soft copy may NOT have any file other than your source code. You will be heavily penalized if your zip file contains any of the following: input data, program output, compiled code, project specs, or any file that's not .cpp/.java.

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IV. Naming Conventions:

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Assuming your first name is **John** and last name is **Smith**, name your submission files as:

Hard copy:	SmithJ_Project#_PDF.pdf	(replace # with project number)
Soft copy:	SmithJ_Project#_LANG.zip	(replace "LANG" with "CPP" or "JAVA")

All the code you write must be in one single .cpp or .java file. You must name the source code file as:

      For C++:   SmithJ_Project#_Main.cpp
      For Java: SmithJ_Project#_Main.java

NOTE: Your source code will be compiled and executed by a script. Failing to follow the file naming convention means your project will not be recognized and will not receive a grade.

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V. Compilation & Execution:
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Assume "Project5" accepts 3 parameters; "data1.txt", "output.txt", and "debug.txt". Your source code will be compiled and executed in the following format:

Cpp Compile:

```
g++ -std=c++11 SmithJ_Project5_Main.cpp -o SmithJ_Project5_Main
```

Cpp Execute:

```
./SmithJ_Project5_Main data1.txt output.txt debug.txt
```

Java Compile:

```
javac SmithJ_Project5_Main.java
```

Java Execute:

```
java SmithJ_Project5_Main data1.txt output.txt debug.txt
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VI. Grading Criteria
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If a project was worth N points:
1. No submission will receive -N points out of N.   (you will receive negative grade)
2. Failure to compile will receive -N/2 points out of N.   (you will receive negative grade)
3. Failure to execute will receive 0 points out of N.
4. Project that compiles, executes, and produces **wrong** results will receive 0 out of N.
5. Project that compiles, executes, and produces **partially correct** results will receive partial points out of N.
6. Project that compiles, executes, and produces **correct** results will receive N points out of N.
7. Plagiarising or copying portions of code from the internet or students will receive -999 out of N points.

Additionally:
1. Submissions that do not follow the naming convention will receive -N/3 points.   (on top of project score)
2. Submissions that do not follow the email template will receive -2 points.
3. If algorithm illustrations are required in hard copy and you do not include them, you will receive -2 points.
4. If your program produces correct results but the output is not formatted to be readable, you will receive -2 points.
5. Submitting late will have the following penalty:
    a. 1 day late: -1 point.
    b. 2 days late: -2 points.

c. 3 days late: counts as no submission and will receive -N out of N points.

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VII. Email Template

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Every project submission must follow the following email template. Email your submission to your section's TA:

323.25	323.25.spring2023@gmail.com
323.36	323.36.spring2023@gmail.com
CV	cv.spring2023@gmail.com

Additionally, cc to the professor:

yun@cs.qc.cuny.edu

The subject line must be exactly in this format. Your project will not be recognized by the script if the email subject line is not in this template:

(Section) Your Name <Project #: Project Name>

For example:

For 323.25 section:

(323.25) John Smith <Project 5: Data Structures>

For 323.36 section:

(323.36) John Smith <Project 5: Data Structures>

For Computer Vision section:

(CV) John Smith <Project 5: Data Structures>

The body of your submission email must have the following contents. Copy and paste the following and replace the blanks with appropriate answers.

> Student: _____
> Submitting Project __
>
> 1) Does your project compile? _____
> 2) Does your project execute? _____
> 3) Does your project produce correct results? _____
> 4) Did you write the code yourself? _____
> 5) Submission date and time: _____

NOTE: If you would like to add additional notes/comments when submitting your project, append what you want to say after those questions above.

Lastly, include your soft copy and hard copy as attachments in the email. Only attached files will be graded. For example, the attachments "SmithJ_Project5_PDF.pdf" and "SmithJ_Project5_CPP.zip" are considered valid submission.