

EECE2560 Fundamentals of Engineering Algorithms

Department of Electrical and Computer Engineering

Project Completion and Submission Guidelines

Project are performed in teams made up of two people. Any exception must be approved by the instructor. All members of the team should submit the project.

Use the following guidelines when completing and submitting your solutions to projects.

- Each coding project should be contained within its own MS Visual Studio project. Each project should contain all source files and user-defined header files needed to build the executable.
- Each group of students working together has a unique identifier, in all lower case letters:

`(first 3 letters of first student's last name)(first 3 letters
of second student's last name)`

The names should be listed in alphabetical order, and this identifier should remain the same throughout the semester. For example, if Mary White were working with Jane Smith on project 1a, our identifier would be `smiwhi`.

- The name of the project and the project directory for project `n` should be `identifier-n`. For example, for project 1a, I would create a project called `smiwhi-1a`.
- To submit your solutions, zip together all the project directories (containing the source and header files you used to compile) into a single file. The name of the submission file for homework `n` should be `identifier-n.zip` For example, for project 1a I would create a zip file called `smiwhi-1a.zip`.
- Submit your solutions by uploading the zip file onto the Assignments page of the course Blackboard page.
- We will evaluate your code by compiling it and running it using MS Visual Studio. Your code must be compatible with this platform.
- Your programs will be graded based on the completeness and correctness of your code, quality of the design (use of data abstraction and modularity), and how well your code follows the documentation and style guidelines.
- Your work should be contained within source (`*.cpp`) files, and header (`*.h`) files. Each source file should contain a `#include` statement for each header file. Source files should not include other source files.

Your projects will be graded based on (1) code compilation, (2) code execution, (3) algorithm correctness, (4) documentation and style, and (5) software engineering. For example,

Code compilation:

- [Compiles correctly] 10/10
- [Does not compile, gives 2 small errors] 7/10
- [Does not compile, many errors] 4/10
- [Does not compile, code completely wrong] 0/10

Code execution:

- [Executes correctly] 20/20
- [Mostly executes correctly, but does not handle the third case correctly] 18/20
- [Many errors in execution, does not find the correct shortest path] 14/20
- [Major errors in execution, output completely wrong] 5/20
- [Does not compile, execution not checked] 0/20

Algorithm correctness:

- [Algorithms are correct] 40/40
- [Small error in the shortest path algorithm -- should check for end of path before end of loop] 36/40
- [Significant errors in one important function -- shortest path algorithm completely wrong] 25/40
- [Many significant errors in important functions] 15/40
- [Algorithms are all totally wrong] 0/40

Documentation and style:

- [Code follows documentation and style guidelines] 10/10
- [Does not follow documentation and style guidelines in a few places -- shortestPath function not fully documented] 8/10
- [Does not follow documentation and style guidelines -- no documentation and incorrect style throughout] 0/10

Software engineering:

- [Uses good software engineering techniques] 20/20
- [Should use public member function to access private data] 17/20
- [Poor software engineering techniques -- for example ...] 14/20