

APPENDIX A: Code Documentation Template

FILE

: filename.extension FILE

: author name

DESCRIPTION: brief description of content/purpose of the file

COPYRIGHT : created

REVISION HISTORY

Description:

Date: By: revision date author revision date author description of the change description of the change

revision date author description of the change

FUNCTION

FUNCTION : function name

DESCRIPTION: brief description of the what the function does

: (list all parameters pass in the function)

dataType variableName - brief description dataType variableName - brief description

dataType variableName - brief description

: (no return) void

(with return)dataType - brief description

*/



APPENDIX B: Rubric Scoring

Rubric 1: Assessing and evaluating ability to construct data structures and algorithm consistent with common engineering design situations.

Expert (1.0)	Proficient (1.3)	Competent (2.0)	Novice (3.0)	Beginner (4.0)	(5.0)
 The solution is completely accurate. Demonstrates a thorough understanding of the tradeoffs for algorithms employing different data structures and/or design strategies for given problems. 	 The solution is overall correct but with few computational errors. Demonstrates a thorough understanding of the tradeoffs for algorithms employing different data structures and/or design strategies for given problems. 	 The solution is overall correct but with few computational errors. Demonstrates a near complete understanding of the tradeoffs for algorithms employing different data structures and/or design strategies for given problems. 	 The solution is incorrect in several places. Demonstrates an incomplete understanding of the tradeoffs for algorithms employing different data structures and/or design strategies for given problems. 	 The solution is done incorrectly. Demonstrates lack of understanding of the tradeoffs for algorithms employing different data structures and/or design strategies for given problems. 	No solution at all.

Rubric 2: Assessing and evaluating ability to implement data structure and algorithm appropriate for solving a given scenario

Expert (1.0)	Proficient (1.3)	Competent (2.0)	Novice (3.0)	Beginner (4.0)	(5.0)
Code executes flawlessly satisfying all of requirements 1 to 5 1. Code submitted on time 2. Used the best algorithm and data structure 3. Code is modular and well structured 4. Exception handling implemented 5. Conforms to code documentation standards	Code executes satisfying requirements 2 to 5	Code executes satisfying partially requirement 2 and ALL of requirement 3 to 5	Code executes satisfying partially requirement 2 and AT LEAST TWO of requirements 3 to 5	Code executes satisfying partially requirement 2 and ONLY ONE of requirements 3 to 5	Code does not execute at all, even if requirements 3 to 5 are satisfied or not