Steganography Lab: Open-Ended Activity Scoring Guidelines and Notes

Skill	*Task*	*Scoring Criteria*	*Decision Rules*	*Score & Notes*
Row 1 **Code Implementation:** Write a program to satisfy method specifications using expressions, conditional statements, and iterative statements. **Emerging**	Program	A complete program with a `main` method was submitted.	**Do NOT award a point if:** ▪ no program is submitted; or ▪ the program submitted does not contain a `main` method.	Student response earns this point: ☐Yes ☐No Comments:
Row 2 **Program Design and Algorithm Development:** Determine an appropriate program design to solve a problem or accomplish a task. **Emerging**	Response to Question 1	The written response: ▪ Describes the development process used to implement the provided program.	**Do NOT award a point if:** ▪ only one aspect of the process (such as brainstorming) is described.	Student response earns this point: ☐Yes ☐No Comments:

Skill (continued)	*Task*	*Scoring Criteria*	*Decision Rules*	*Score & Notes*
Row 3 **Code Implementation:** Write a program to satisfy method specifications using expressions, conditional statements, and iterative statements. **Emerging**	Response to Question 2	▪ Selected code segment contains a **complete** method header for a student created method that contains at least one parameter	**Do NOT award a point if any one of the following is true:** ▪ the access modifier for the method is not included; or ▪ the return type of the method is not included; or ▪ the method does not take a parameter, or the parameter is missing from the method header; or ▪ the method header is not complete or contains syntax errors.	Student response earns this point: ☐Yes ☐No Comments:
Row 4 **Program Design and Algorithm Development:** Determine an appropriate program design to solve a problem or accomplish a task. **Proficient**	Response to Question 2	Written response: ▪ Explains why the given parameters were chosen, including type **AND** ▪ Explains why the method was static or non-static	▪ **Do NOT award a point if any one of the following is true:** ▪ the response does not discuss why the given parameters were chosen; or ▪ the type of parameter(s) discussed do not match those in the provided method header; or ▪ the response does not discuss why the given method was made static or non-static; or ▪ the explanation for why the method was made static or non-static does not match the provided method.	Student response earns this point: ☐Yes ☐No Comments:

Skill (continued)	*Task*	*Scoring Criteria*	*Decision Rules*	*Score & Notes*
Row 5 **Documentation:** Explain how the result of program code changes, given a change to the initial code. **Proficient**	Response to Question 2	Written response: ▪ Explains how the code would have been affected if a different decision had been made regarding parameters or whether the method was static or non-static	**Do NOT award a point if any one of the following is true:** ▪ the response does not discuss the method provided; or ▪ the explanation does not address how the code would have been changed if a different decision had been made.	
Row 6 **Code Implementation:** Write program code to create, traverse, and manipulate elements in a 1D array or `ArrayList` object. **OR** Write program code to create, traverse, and manipulate elements in a 2D array object. **Emerging**	Response to Question 3	▪ Selected code segment contains traversal of a data structure	**Do NOT award a point if any one of the following is true:** ▪ the code segment does not contain traversal of a data structure, including: › iterating over multiple elements in the data structure › access of multiple elements. ▪ the code segment contains syntax errors.	Student response earns this point: ☐Yes ☐No Comments:

Skill (continued)	*Task*	*Scoring Criteria*	*Decision Rules*	*Score & Notes*
Row 7 **Documentation** Explain how the result of program code changes, given a change to the initial code. **Proficient**	Response to Question 3	Written response: ▪ Explains how implementing this program using a different data structure would change the complexity of the program	**Do NOT award a point if any one of the following is true:** ▪ only syntactical differences are discussed; or ▪ complexity is not described; or ▪ the description provided does not discuss the provided code segment.	Student response earns this point: ☐Yes ☐No Comments:
Row 8 **Code Implementation:** Write program code to create, traverse, and manipulate elements in a 1D array or `ArrayList` object. **OR** Write program code to create, traverse, and manipulate elements in a 2D array object. **Advanced**	Response to Question 3	Written response: ▪ Provides an equivalent code segment which uses a different type of data structure from the code segment included in the response	**Do NOT award a point if any one of the following is true:** ▪ the type of data structure in the equivalent code segment is the same type of data structure as the one provided; or ▪ the code segment is not equivalent.	Student response earns this point: ☐Yes ☐No Comments: