**Programming Assignment 4 Sprint Report**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Sprint 1**

Epic: As a student of CS 221 I need to create the basic program architecture.

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| **Backlog of User Stories** | **Done Date\*** |
| Create the project in Visual Studio, copy the provided .cpp file containing main into your project and add it to the project. |  |
| Add all required functions to the file with main as stub functions. (Functions returning a value should return zero, NULL, etc. as appropriate.) |  |
| Add a cout line to each function just to report that the function was reached. |  |
| Add code to main to make calls to all functions and verify that all were reached. |  |

**Sprint 2**

Epic: As a student of CS 221 I need to plan how to test each function.

Epic: As a student of CS 221 I need to implement and verify each function.

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| **Backlog of User Stories** | **Done Date\*** |
| For each function in the program determine exactly how you will test the function automatically from main and add code to perform each of the automatic tests. |  |
| **Add code, test, and verify all functions** |  |
| BubbleSort() |  |
| ProxMapSort() |  |
| InsertionSort() or SelectionSort() |  |
| QuickSort() or ShellSort() |  |
| MergeSort() or RadixSort() |  |
| Verify against the SOW that all functionality of the project has been fully implemented. |  |
| Prepare the final written report to be turned in with the source file and this Sprint Report. |  |

**\*Done means you have implemented the code AND fully tested it. Double off if you say you have tested it and it fails when tested by the instructor.**