**Programming Assignment 4 Sprint Report**

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**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, add a source file and add a main function to the source file. | 7/30/18 |
| Add all required functions to the file with main as stub functions. (Functions returning a value should return zero, NULL, etc. as appropriate.) | 7/30/18 |
| Add a cout line to each function just to report that the function was reached. | 7/30/18 |
| Add code to main to make calls to all functions and verify that all were reached. | 7/30/18 |

**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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| 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. | 7/30/18 |
| **Add code, test, and verify all functions** |  |
| Hash1() | 7/30/18 |
| Hash2() | 7/30/18 |
| Hash3() | 7/30/18 |
| ProbDec\_1() | 7/30/18 |
| ProbDec\_2() | 7/30/18 |
| ProbDec\_3() | 7/30/18 |
| Verify against the SOW that all functionality of the project has been fully implemented. | 7/30/18 |
| Prepare the final written report to be turned in with the source file and this Sprint Report. | 7/30/18 |

**\*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.**