**CSE212 – Programming with Data Structures**

**08 Prove – Response Document**

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| --- | --- |
| **Name:** |  |
| **Date:** |  |
| **Teacher:** |  |
| **Section:** |  |

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**Question 1: Indicate which problems you were able to solve in the table below by putting an “x” in the appropriate columns:**

|  |  |
| --- | --- |
|  | **Solved Successfully** |
| **Problem 1 – Recursive Sum** |  |
| **Problem 2 – Fibonacci Improved** |  |
| **Problem 3 – Find in a Sorted List** |  |
| **Problem 4 – Climbing Stairs** |  |
| **Problem 5 – Wildcard Binary Pattern** |  |

**Question 2: Provide a written paragraph (about 30 seconds if spoken out loud) for each problem you solved or attempted to solve representing how you would explain the solution in an employment interview.**

|  |  |
| --- | --- |
|  | **Interview Response** |
| **Problem 1 – Recursive Sum** |  |
| **Problem 2 – Fibonacci Improved** |  |
| **Problem 3 – Find in a Sorted List** |  |
| **Problem 4 – Climbing Stairs** |  |
| **Problem 5 – Wildcard Binary Pattern** |  |

Remember: You need to submit the following code files in addition to this document:

* 08-prove\_recursion.py

Grading Rubric

All grades below are out of 100 points which allows for bonus points if you solve all 5 problems correctly. Points will be deducted for improper use of data structures or improper coding technique.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Solved all 5 Problems Correctly** | **Solved 4 Problems Correctly** | **Solved 3 Problems Correctly** | **Solved 2 Problems Correctly** | **Solved 1**  **Problem**  **Correctly** |
| Up to 110 Points | Up to 100 Points | Up to 90 Points | Up to 80 Points | Up to 70 Points |