**CSE 212 – Programming with Data Structures**

**W03 Prove – Response Document**

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**Question 1: From Part 1, describe what the Mystery Stack 1 code does and how the use of a stack helps in the implementation.**

The Mystery Stack 1 returns a reversed string. Using the stack list helps to be able to store each character in a slot of the list which allows you to iterate through the list backwards and write the new string in reverse.

**Question 2: From Part 1, what are the three outputs from the Mystery Stack 1 code for the following three different inputs?**

* **racecar**

racecar

* **stressed**

desserts

* **a nut for a jar of tuna**

anut fo raj a rof tun

**Question 3: From Part 2, describe what the Mystery Stack 2 code does and how the use of a stack helps in the implementation.**

**Question 4: From Part 2, answer the following regarding what the Mystery Stack 2 code does:**

* **What will the result be if the input parameter is: 5 3 7 + \***
* **What will the result be if the input parameter is: 6 2 + 5 3 - /**
* **What input parameter would result in the display of “Invalid Case 1!”**
* **What input parameter would result in the display of “Invalid Case 2!”**
* **What input parameter would result in the display of “Invalid Case 3!”**
* **What input parameter would result in the display of “Invalid Case 4!”**