**CSE 212 – Programming with Data Structures**

**W01 Prove – Response Document**

|  |  |
| --- | --- |
| **Name:** | Bryan Wilson |
| **Date:** | 9/14/2024 |
| **Teacher:** | Alvey |
|  |  |

*It is a violation of BYU-Idaho Honor Code to post or share this document with others or to post it online. Storage into a personal and private repository (e.g. private GitHub repository, unshared Google Drive folder) is acceptable.*

**Question 1: For the rotate right problem, provide a description of how you solved the problem.**

For the rotate right problem, I initially had to experiment a bit, but I eventually figured it out.

I started by creating a new list to hold the rotated values.

I looped through each item in the original list and checked if the item's index plus the rotation amount would exceed the list's length.

* + If it didn't exceed the length, I added the item to the new list in its new position.
  + If it did exceed the length, I handled it differently. I introduced a variable called amountFromEnd, which tracked how many elements from the end of the list should appear at the beginning after the rotation.

As I continued looping through the list, amountFromEnd increased with each iteration, ensuring that the items at the end of the list were correctly placed at the start after the rotation (or in their proper location before the number 1).

This process continued until the entire list was properly rotated.

**Question 2: For the rotate right problem, draw a picture of how you solved the problem.**

A piece of paper with writing on it

Description automatically generated

Remember: You need to commit all the changes to the prove-01-<username> repository along with this document. Then submit a link to the repository in I-Learn.