CS2023 - Data Structures and Algorithms

In-class Lab Exercise - Week 6

April 4, 2023

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**Question 1 – Stack using array**

Code: <https://github.com/Anuki16/cs2023-data-structures-algorithms/blob/98bafd3dabb33c4825abc14bc40c823fe746af2f/Lab6/stack_array.cpp>

**Question 2 – Stack using linked list**

Code: <https://github.com/Anuki16/cs2023-data-structures-algorithms/blob/98bafd3dabb33c4825abc14bc40c823fe746af2f/Lab6/stack_ll.cpp>

**Question 3**

Terminal Output

**Text

Description automatically generated**

**Text

Description automatically generated**

According to the above output, the stack implementation with an array has taken slightly less time than the linked list implementation. However, the program executed may be too short to make an accurate decision based on the observations.

Complete GitHub repository for code: <https://github.com/Anuki16/cs2023-data-structures-algorithms>