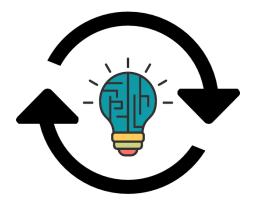
American University of Armenia CS 121A&B - Data Structures

Spring 2024

PSS 4

- Problem 1. Given a singly linked list, find the middle of the linked list using a single loop.
- Problem 2. Via using the binary search approach, find the given integer number in a sorted linked structure.
- Problem 3. Given a singly linked list of characters. Determine if the linked list is a palindrome using the stack ADT.
- Problem 4. Solve problem 3 by using a recursive approach.
- Problem 5. Given an expression with prefix notation, convert it to a postfix notation.

Discussion on circular linked list applications and logical problems.



Problem 6. Implement quick sort with the doubly linked structure.