

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.