

American University of Armenia

CS 121A&B - Data Structures

Spring 2024

PSS 4

Problem 1. Given a singly linked structure, find the middle node 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 structure of characters. Determine if the linked structure 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.