

CS221- Data Structures
Assignment 1
[Linked List, Stack, and Applications]
Deadline: 8th October 2023
Group Size: Maximum two individuals

Problem Statement:

In this assignment, you have to write a program to convert an infix expression to postfix and then solve it using a stack. The stack should be implemented using a **doubly circular linked list**.

Your program should do the following things.

1. Take as input a mathematical expression
For example: $12 + 3 * 8 * (3/4 - 2)$
2. Solve the input expression
3. Your program must have separate functions for addition, subtractions and others
4. Display following as output after clearing the screen
 - a. The input equation.
 - b. Answer to the equation.

Note:

The equation may be of any complexity try to write a generic code.