

CS221- Data Structures
Assignment 2
[Linked List, Stack, and Applications]
Deadline: 21st October 2022 11:59PM
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 an array.

Your program should do the following things.

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

Note:

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

Submission guidelines:

- Please email your assignment at CS221fall2022@gmail.com
- Email subject must be, CS221-A2-RegNo.1-RegNo.2. For example CS221-A2-2021234-2021333
- Your submission file must also be named CS221-A2-RegNo.1-RegNo.2. For example CS221-A2-2021234-2021333