Bahria University, Lahore Campus

Department of Computer Science

Quiz 02

(Spring 2023)

Solution

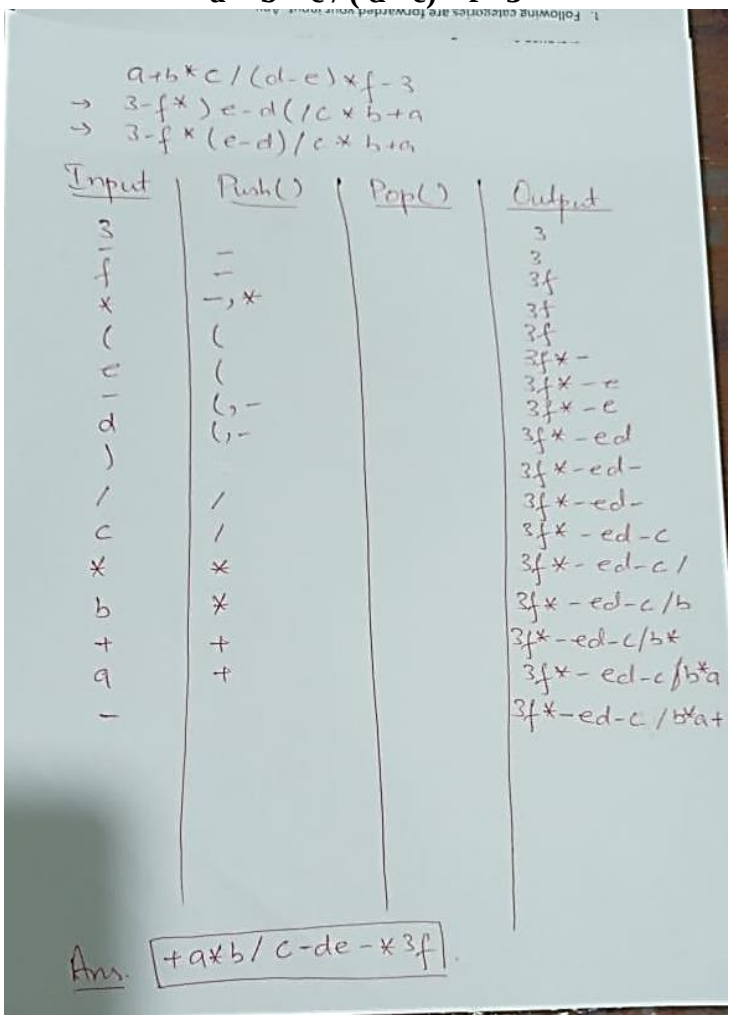
Course:	**Data Structures and Algorithm**	Date: **27-March-2023**
Course Code:	CSC-211	Max Marks: **10**
Faculty's Name:	Ms. Zupash Awais	

CLOs	
CLO1	Explain and compare different data structures and their applications
CLO2	**Apply appropriate data structures according to the given scenarios and application domain**
CLO3	Analyze time complexity of different algorithms
CLO4	Design efficient algorithm(s) to solve real world problems

Question 01: **[05]**

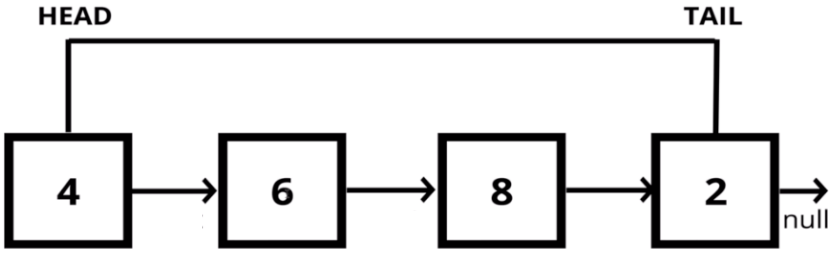
Convert the Expression from infix to prefix

a + b * c / (d - e) * f - 3



Question 02: **[05]**

Perform the following functions on Linked List.



1) head->next->data = 6
2) insert_at_start(3) = 3 -> 4 -> 6 -> 8 -> 2
3) head->data = 3
4) head->next->next->next->data = 8
5) tail -> data = 2
6) insert_at_end(9) = 3 -> 4 -> 6 -> 8 -> 2 -> 9
7) tail->data = 9
8) Length of List = 6