Assignment03.md 2023-11-18

Data Structures and Algorithms - Assignment 3

- 1. Insert 5 elements in stack and find maximum value in stack without traversing it.
- 2. Create an array of integers. Reverse the array using stack
- 3. Write program to implement linear queue in which front and rear starts at 0.
- 4. Implement circular queue using counter method
- 5. Implement following algorithms for multi digit numbers i. postfix evaluation ii. prefix evaluation
- Optional
- 6. Implement following algorithms for multi digit numbers i. infix to postfix ii. infix to prefix
- 7. Paperwork: Convert following examples from Infix to Prefix and Postfix. $K + L M*N + (O^P) * W/U/V * T + Q (A + B) * C (D E) * (F + G)$
- 8. Paperwork: Convert followinf expression to Prefix using stack algorithm. Refer code. 5+9-4*(8-6/2)+1\$(7-3)