# CS 400 HW 5: Stack and Queue

**Note**: for CS 400’s homework, you will need to

Submit your solutions(.cpp file) to the blackboard

## Question 1: Write a program to convert a Postfix expression to an Infix expression using Stack.

Examples:

1. Input: ABC\*+D+

Output: A + B \* C + D

1. Input: AB+CDE/\*-F+

Output: ((A + B) – C \* (D / E)) + F

Question 2: Assume that we have a queue of five elements. We need to delete the third element, can we use another queue to hold the two elements at the front of the queue, delete the third element, and push back the top elements?

Answer the question first and implement it using c++.

Work on the .cpp file: CS400HW5Question2\_name\_WSUID

Question 3: What do you think is the solution to deleting an element from the middle of queueing and keep the original order of the element?

Answer the question first and implement it using c++.

Work on the .cpp file: CS400HW5Question3\_name\_WSUID.cpp