



**Course:** CS218 - Data Structures

**Semester:** Spring 2021

**Points:** 10

**Assignment:** 03

**Instructor:** Waqas Ali

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**NOTE:** Attempt all questions.

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## Submission

Write down the answer on a piece of paper, scan your code using a software like camscanner, make pdf file and submit it on slate.

1. Write a *Reverse()* function that reverses a doubly linked list by rearranging all the previous and next pointers and the head pointer. Ideally, *Reverse()* should only need to make one pass of the list. (**Note:** You need to change the position of the entire node in the list not only the data portion).
2. Write a function named *evalPostFix()*, the function should take an expression in postfix form as an argument then evaluate that expression (using a stack) and return its result. (**Note:** You do not need to implement the stack class, assume that it is already present).