

CSC 340.02 - Fall 2021 - Assignment 04

Due: 11/14/2021 11:55pm

Grade: 150pt - 15%

Extra credit: 50pt - 5%

**Guidelines for the assignment submissions:**

What to submit?

- One zip/tar.gz file:
  - Name: <First Name><Last Name>-Assignment-##.zip
  - Source code should include only files that we create and edit (\*.cpp and/or \*.h)

How to submit?

iLearn, Assignment Submission section

1. Linked list: (120pt)

...

2. Operator overloading: (30pt)

...

3. AddTwoNumber: (50pt)

Given two linked lists that represent numbers starting with the most significant digit, add the two numbers together and return a list that represents the sum of the two numbers. You may assume the numbers are non-negative and have no leading zeros.

Example 1:

```
321 + 432 = 753
3 -> 2 -> 1 -> null
+ 4 -> 3 -> 2 -> null
= 7 -> 5 -> 3 -> null
```

Example 2:

```
999 + 99 = 1098
  9 -> 9 -> 9 -> null
+ 9 -> 9 -> null
= 1 -> 0 -> 9 -> 8 -> null
```

Add your implementation to the included AddTwoNumber.cpp file.

Grading:

- 50% If only test case 1 is passing
- 100% If both test case 1 and test case 2 are passing