

CS 1101 Lab 8 - Linked Lists

Released on: **Monday, November 19th**

Due on: **Wednesday November 28th, 11:59pm**

How: submit zip file to Google classroom

What: A zip file named after you (LastNameFirstName-lab08.zip) containing 2 Java files.

Lab Description

Objective 1

Create a class named Node. This should be a linked list style class that has a pointer to the next node in the list and an integer val. Make the fields private, and use public getter and setter methods.

Objective 2

Write a class method that computes the average of the linked list.

Objective 3

Write a class method that finds the minimum of the linked list.

Objective 4

Write a class method that reverses the linked list and returns the new head.

Example:

Input: 3 -> 7 -> 12

Returns: 12 -> 7 -> 3

What do you have to turn in?

2 Java files, **MyJavaLab08.java**, and **Node.java** inside a zip folder named LastNameFirstName-lab07.zip

Criteria for grading:

- [10 pts] Your lab is submitted according to specifications (proper name of file, proper format)
- [10 pts] Well commented code explaining what you are doing (clear and grammatically correct)
- [25 pts] Objective 1
- [15 pts] Objective 2
- [15 pts] Objective 3
- [25 pts] Objective 4