

COSC 2430 lab 2: Linked List as an Array and Recursion

1. Introduction

You will create a C++ program to manage a linked list. Your program will read an input file contain a series of string and insert them into a linked list, then print out the linked list in reverse order using recursion method. The purpose of this lab is for you to practice linked list and recursion.

2. Input and Output

a. Input file

The input file will contain a list of string

A single line can have multiple strings, or it can be empty

If a line contains multiple strings, each string will be separated by a space

b. Output file

The printed linked list in reverse order

3. Examples

input1.txt

!

awesome is

Joseph

guess I

output1.txt

I guess Joseph is awesome !

input2.txt

Is this

sentence

backward

or

something

?

output2.txt

? something or backward sentence this Is

input3.txt
tree
the
in

hiding
elephant

the see never
will
You

output3.txt
You will never see the elephant hiding in the tree

4. Turn in your lab assignment

Lab 2 needs to be turned in to our Linux server, follow the link here

https://rizk.netlify.app/courses/cosc2430/2_resources/

Make sure to create a folder under your root directory, name it lab2 (name need to be lower case), only copy your code to this folder, no testcase or other files needed.

PS: This document may have typos, if you think something illogical, please email TAs for confirmation.