Address Book

Introduction

Your parents currently have all names and addresses of their relatives, friends, and contacts stored in a text file in the following format:

    Name
    Street Address
    City, State Zip
    Country
    Phone Number

Your parents have been impressed with your programs and need your help to automate their address book.

Problem Statement

Write a program that utilizes a linked list to organize your parents' address book.

Design Requirements

The user of your program should be able to perform the following operations on their address book:

1. Add a new address record
2. View an existing address record
3. Delete an existing address record
4. Modify an existing address record
5. Save the entire address book in a file
6. Retrieve all address entries using zip code
7. Print the entire address book on the screen

If the user chooses to view, delete, or modify an existing address entry; they will use the name field to identify the address record.

Program Input

The program gets its input from a data file with data organized as described above. Create your own text file containing a minimum of five addresses. Leave a blank line between two consecutive address records. Here are the first two addresses in a sample input file.

    Iyad A. Ajwa
    860 Stone Creek Blvd
    Ashland, OH 44805
    U.S.A.
    (419) 289-2116

    Nadia A. Ajwa
    860 Stone Creek Blvd.
    Ashland, OH 44805
    U.S.A.
    (419) 289-2116

Program Output

The output of the program depends on the user's choice. Your program should:

- Display a welcoming message explaining the specifics of using the program.
- Display a menu allowing the user to select one of the operations listed above. Of course, you should provide an additional option to allow the user to quit your program.
- According to user's selection, your program calls the correspondent function to perform the operation.
- Your program exits only when the user chooses to do so.

Submission Instructions

- Zip **ALL** files in the project in one zip file. The zip file must include all necessary files to run and test your program including but not limited to the input data file, `LinkedList.h`, `LinkedList.cpp`, and `YourProgram.cpp`.
- Rename the zip file using the following naming convention: **LastName-FristName.zip**
- Submit the zip file in the drop box dedicated for this assignment.

Dr. Iyad A. Ajwa
CS–230 Data Structures

Programming Assignments
Assignment 4