

Due: March 11 (Friday) at 11:59 PM

Objective: To gain experience using a positional list by implementing a text-editor program. Plus, provide experience designing and documenting a user application.

To start the project: Copy **your** `mypositionallist.py` from Lab 7 Part B as your starting point for your positional-list ADT implementation used in this project.

The Assignment: (This is a combination of Projects 5 and 6 of Chapter 16 on pages 683-684)

For this programming project, you are to write a simple text-editor program that utilizes a positional-list ADT.

Your program should present a menu of options that allows the user to:

- enter a filename of a text (.txt) file to edit. Your program should then insert each line from the text file into a positional list.
- create a new text (.txt) file to edit. Your program should create an empty positional list.
- navigate and display the first line
- navigate and display the last line
- navigate and display the next line
- navigate and display the previous line
- insert a new line at the current cursor position
- delete the current cursor position
- replace the current line with a new line
- save the current list back to a text file

Implement AND fully test your text-editor program. Part of your grade will be determined by how robust your text-editor runs (i.e., does not crash) and how user-friendly/intuitive your program is to use. You are required to submit a brief User's manual on how to use your text-editor.

For extra credit, your program may also do one or more of the following:

- Provide additional text-editor functionality: Find, Replace, Copy a line, Paste a line, etc. Be sure to include these additional features in your User's manual.
- Use a GUI package (e.g., Tkinter discussed in Chapter 9) instead of a text-menu interface. Note: you should still use the positional-list ADT to store the file.

Submit all necessary files (userManual.doc, mypositionallist.py, node.py, etc.) with your text-editor program file(s) as a single zipped file (called hw4.zip) electronically at

https://www.cs.uni.edu/~schafer/submit/which_course.cgi