Assignment 1 – Line Editor

Write a simple line editor. Keep the entire text on a linked list, one line in a separate node. Start the program with entering EDIT <file>, after which a prompt appears along with the line number. If the letter I is entered with a number *n* following it, then insert the text to be followed before line *n*. If I is not followed by a number, then insert the text before the current line. If D is entered with two numbers *n* and *m*, one *n*, or no number following it, then delete lines *n* through *m*, line *n*, or the current line. Do the same with the command L, which stands for listing lines. Entry E signifies exit and saving the text in a file.

Here is an example:

```
EDIT testfile

1> The first line

2>

3>And another line

4>I 3

3>The second line

4>One more line

5>L

1> The first line

2>

3>The second line

4>One more line

5>And another line

5>D 2

4>L

1> The first line

2>The second line

3>One more line

4>And another line

4>E
```