

**What is the computational complexity of the methods in the implementation?**

insertEnd is O(1)

edit is O(N)

insert is O(N)

print is O(N)

delete is O(N)

search is O(N)

All of the functions that are O(N) use only one for loop that iterates over the list. insertEnd, however, references the “end” node and appends to that, making it O(1).

**Your thoughts on the use of linked lists for implementing a line editor. What are the advantages and disadvantages?**

A linked list is bad at finding elements at a specific index, so the edit command suffers greatly. However it is efficient in appending and inserting or deleting information into/from the list.

**What did you learn from this assignment and what would you do differently if you had to start over?**

I learned that it is probably better to check for the line number within the for loop and run the code there. What I did was try to iterate to the node in question and perform the operation after it was found, outside of the for loop.