Linked List Lab:

**There are three versions of Linked Lists that can be completed: the standard Linked List (a shell can be found in the “Linked List STUDENT” folder), a Circular Linked List and a Double Linked List. The grade you receive will depend on the efficiency of the most advanced version of a Linked List that you submit. The better the average efficiency, the better the grade you receive. It is recommended that you start with a standard Linked List. Upon completion, you can evolve your data structure to one that is more efficient until you get to the grade that you want.**

**Here is the rubric for grading the final version of a Linked List that you submit:**

85% if the following features all have O(n) efficiencies (they require loops to traverse): a method that returns the size, adding a new last element, remove the last element, set the last element to a new value , get the last element.

90% if the size method is O(1), meaning that it does not contain a loop that traverses through the list, but still O(n) to add a new last element, remove the last element, set the last element, get the last element.

95% if size, add a new last element, set the last element and get the last element are all O(1), but remove the last element is O(n).

100% if size, add last, remove last, set last and get last are all O(1), meaning that none of these abilities require a loop to traverse.