

Assignment 06

Due: Nov-02

Goal: gaining familiarity with interactive testing, building linked list based structures.

Programming Project 4.5

Read through programming project 4.5 starting on page 225. In this assignment you will implement the class `DoubleLinkedListSeq`. I've provided a tester class called `DoubleLinkedListSeqTester` and an incomplete version of `DoubleLinkedListSeq`. As opposed to our last program which used automated tests, this tester will provide an interactive way to test `DoubleLinkedListSeq`.

After building the program, use the tester to exercise all the different methods of `DoubleLinkedListSeq` at least once. Copy & paste the results of this test into a text file labeled **TestingSession.txt**. Make sure to include this file when you submit your homework.

Please note the following:

The tester makes use of certain display methods in the `DoubleNode` & `DoubleLinkedListSeq` class. The code works, but makes certain assumptions; in particular, changing the names of the instance fields will easily break it.

While not required, you might find it helpful to use dummy nodes (pg 233) for the head & tail.

I've provided a modified version of the `DoubleNode` class from the author's web site, however, make sure you understand the mechanics of the class. You may also wish to write some simple tester to check its methods for correctness.

Extra credit: make modified version of `DoubleNode` called `DoubleTwoWayNode` which is doubly linked. Fully document & implement `DoubleTwoWayNode`.

Put a copy of your **entire project folder** into a **.zip** file named **CS225-AXX-YOURNAME.zip**, replacing **YOURNAME** with your actual first and last name & **XX** with the assignment number.

Upload the **.zip** file to Moodle.

The following rubric will be used for grading:

Description	Points
Correct filename(s) are used	1
DoubleLinkedListSeq is complete (based on the text)	11
DoubleLinkedListSeq compiles without errors	1
DoubleLinkedListSeq is documented	3
Program executes	1
Program output is correct	5
TestingSession shows the successful results of testing all methods of DoubleLinkedListSeq at least once.	3
TOTAL POSSIBLE POINTS:	25
Extra Credit	2