INFSCI 2500

Homework 2

The assignment is to implement the methods “insert” and “delete” for our custom collection class Sequence which we built at the end of Lecture 2.

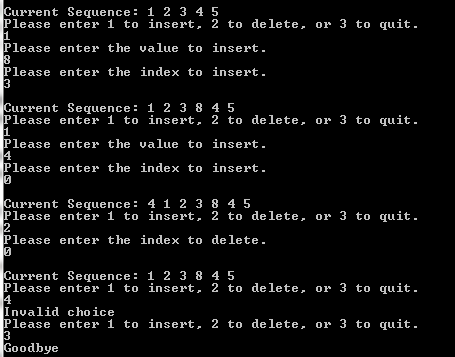
The insert method will take as input int index and E newElement. The method will insert the element into the data array at the specified index. It will then print the elements in the array.

The delete method will take as input int index. The method will delete the element at the specified index. It will then print the elements in the array.

The array should always have just as many spaces as there are elements. Remember to increase or decrease the size field when inserting or deleting.

I have already implemented a print() method for you to use to print the Sequence object out. Call it at the end of each method you write to do the printing.

In the main method, create an instance of the Sequence class and add some integer values with append(). Then write a loop which asks if the user wants to insert or delete or quit from the keyboard. If the user wants to insert or delete, then the loop should ask for the necessary parameters from the keyboard. Below is an example of the functionality expected.



Submit the following:

1. A single java source file “Sequence.java” which includes the class and the main method.

Zip this file and name it “HW2\_Your\_Name”. Then submit it on Canvas.

Grading:

5 points: Submitting the source file which compiles and runs without errors.

5 points: Properly implement the insert and delete methods and control loop as requested.

This assignment is due October 2 at 6 PM. Late submissions will not be accepted!