CS 2003 Fundamentals of Algorithms and Computer Applications

Lab 2: Extending the ListArrayListBased class

Log in to your linux.ens (Linux) account and copy the following files from the directory `~class_sandip/2003/`: *ListInterface.java, ListException.java, ListIndexOutOfBoundsException.java, ListArrayListBased.java, and TestLAL.java.*

Modify the *ListArrayListBased.java* file to implement the following missing methods in ListArrayListBased class:

contains returns either the index of the location in the list where the argument is present or -1 if the argument is not contained in the list,

append appends the argument to the end of the list,

display displays the list items in sequence, and

delete checks if a given item is contained in the list, and if it exists, deletes it.

Also add a constructor that creates a list with the argument element as its only content and a copy constructor.

Submit only the updated *ListArrayListBased.java* file via Harvey. All labs and programs you turn in should include your name, student ID, and lab section.