

CPSC 221

Array List

"The human animal differs from the lesser primates in his passion for lists."
--H. Allen Smith

Objectives

- Create an array-based implementation of the `IndexedUnsortedList` interface, called `IUArrayList`.
- Expand the `ListTester` test suite to ensure correct `IndexedUnsortedList` functionality from `IUArrayList`.
- Expand the `ListTester` test suite to add seven more tests scenarios.

Tasks

- Create an array-based implementation of the `IndexedUnsortedList` interface, called `IUArrayList`.
- Add tests to `ListTester` to confirm correct `IndexedUnsortedList` functionality from `IUArrayList`.
 - Add the following change scenarios (4, 5, 13, 15, 17, 20, 25, 28) from your test plan (total of 15 scenarios in addition to given scenarios). Continue to follow the naming conventions for your tests outlined in the last homework.
 - Be sure to uncomment the lines in the `newList` method of the `ListTester` class, so the class can create `IUArrayList` objects.
 - Complete the set of tests for change scenarios resulting in a 3-element list. The test cases for scenarios 17 and 20 should be used as guidance in writing these.
 - `IUArrayList` should pass all of the tests without any skips.

Files

Build on the files from the previous list testing assignments.

This `IUArrayList` includes the basic class structure and a couple sample methods.

Grading

Points will be awarded according to the following breakdown:

Tasks	Points
IUArrayList implemented with all tests passing, ListTester tests 8 more change scenarios (17 scenarios altogether) and has tests for 3-element lists	40

Required Files

Submit the following files:

- IUArrayList.java
- ListTester.java
- TeamEvaluation.docx