

CSSE 374: Lab 5-1

Background

Assume that you work for an old company that has been using the older versions of sequential data structures in the Java Collection Framework such as **java.util.Vector** rather than its new counterpart **java.util.ArrayList**.

Your company has developed a robust linear transformation library that takes an Enumeration (of the Java Collection Framework, see <http://docs.oracle.com/javase/7/docs/api/java/util/Enumeration.html>) as its parameter and transforms its elements to a well-formatted string output. This library has been around for years and has work well for your company.

You have been tasked to update the **problem.client** package such that the **App** class uses **ArrayList** rather than **Vector**, but doing so without changing anything about the library (the **problem.lib** package).

Design

Create **Lab5-1/docs/Answer.pdf** with answers to the following problems:

Q1. Create a **UML Class Diagram** to present your design idea. Explain the design in a few lines. [10 points]

Implementation

Q2. Implement your code in the **Lab5-1/src/problem.client** package. [30 points]

Testing

Q3: Implement necessary test cases in the appropriate subpackages of the **Lab4-2/test/problem** package. [10 points]

Deliverable

Bundle your project in the **zip** format [not rar] and turn it in on Moodle.