Lab 05: Circular Doubly Linked List

Use the provided source code included in this lab package. In this lab, we have a doubly-linked list (class StudentList) that stores information of a group of students, one node for one student. The information of students consists of their name, sex, and id. JUnit test is provided. Write the following methods for **class StudentList**:

- 1. Write method public void swapNode (DListIterator i1, DListIterator i2), which swaps nodes pointed by i1 and i2. There are two test cases which swap two nodes in the same list and two nodes from the different lists.
- 2. Write method public void insertList(DListIterator i1, CDLinkedList lst), which insert the list lst after i1. In this method, if the lst is empty, do nothing.
- 3. Write method public void gender (String g), which moves all students whose gender is same as g to the front of the list in the same order as in the original list. For example, if a list contains five students, e.g. a, b, c, d, and e. If only b and d are female and the input g is female. The original list must be changed to b, d, a, c, and e.

How to submit:

Make a jar file containing all your source code and submit it through Courseville. Name your file **YourID_Lab05.jar** where YourID is your student ID.