In this lab, we will implement Queue using linked list and circular resizable arrays.

Steps:

1. Start a new project named Lab06Queue
2. Download the following four files from the Canvas and copy into the src folder of your project.
   1. Driver.java
   2. EmptyQueueException.java
   3. ArrayQueueTest.java
   4. LinkedQueueTest.java
3. In Eclipse, right click on your project folder and choose Refresh. The four files you downloaded should show up in the project. Open these files. You will get an error message in the JUnit tester. FIX IT by adding the Junit library to your project.

**Right click on the project -> Properties -> java build path -> add library -> Junit -> finish -> okay**

**We will complete the rest of this by the end of class:**

1. Create a new Interface QueueInterface
2. Create a new class LinkedQueue which implements QueueInterface. Implements all the required methods.
3. Create a new class ArrayQueue which implements QueueInterface. Implements all the required methods.

**Grading Rubric:**

QueueInterface 10 points

LinkedQueue

Constructor 5 points

Enqueue 10 points

Dequeue 10 points

getFront 5 points

isEmpty 5 points

clear 5 points

ArrayQueue

Constructor 5 points

Enqueue 10 points

Dequeue 10 points

getFront 5 points

isEmpty 5 points

clear 5 points

Total 90 points.

**What to do when you are done:**

**Submit** QueueInterface.java, LinkedQueue.java and QueueInterface.javato the appropriate submission folder on Canvas.