Homework#12

Implement

StackQueueDeque and PriorityQueue

Classes

Objective:

You will implement two files including 4 commonly used data structures while practicing incremental commits with Git. Each time you complete a step, you must use git add, git commit with appropriate commit messages, and git push to save your work on your local and remote repository.

Steps and Instructions

Inside the **cse274** folder (your local repository) create a new project called **homework12 (all lowercase, no space, no underscore, no dash)**.
Here is a video that shows you how you can create a project on VS Code:
https://youtu.be/CK3C4KXVXdk

Completing StackQueueDeque and PriorityQueue classes

Download the **StackQueueDeque.java**, **Tester.java, PriorityQueue.java,** and **PriorityQueueTest.java** from canvas, and add them under the **src** folder in your project.

- You are only allowed to use built-in Java libraries that are already imported in the given files. Do not import any additional Java library.
- Follow the given comments for each method inside the **StackQueueDeque.java** and study tester methods inside the **PriorityQueue.java** to figure out how each method should be implemented.

Test your classes

Download **PriorityQueueTest.java** and **Tester.java** to test your methods with.

If you don't know how to run a JUnit test in VS Code, here is a video that shows how to do it: https://youtu.be/PZC5slRkyuc

Submission on GIT

You will be submitting the **'Clone with HTTPS'** link of the **homework12** folder on canvas. The following files Must be in your GitLab in order to get full points:

1. **PriorityQueue.java**
2. **StackQueueDeque.java**

Rubric

Description	Points
The **homework12** folder is added inside the **cse274** folder, and all files are directly inside the **src** folder, with no extra packages	3
The **StackQueueDeque.java** passed all tests of the JUnit tester	14
The **PriorityQueue.java** passed all tests of the JUnit tester	10
Both files are clean, formatted and follows all the style guides	3
Total	20