**CS 0445 Spring 2024 Assignment 1**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

# Product Class Hierarchy:

Subclasses set up correctly / with good design: \_\_\_10\_\_\_\_\_\_\_ (10)

Constructors implemented correctly: \_\_\_10\_\_\_\_\_\_\_ (10)

cost() method versions correct: \_10\_\_\_\_\_\_\_\_ (10)

toString() overridden correctly (+ good output): \_\_\_10\_\_\_\_\_\_\_ (10)

**MyBuffer<T> Class:**

Constructor(s): \_\_\_5\_\_\_\_\_\_\_ (5)

Resizing done correctly: \_\_15\_\_\_\_\_\_\_\_ (15)

Circular array used for data: \_\_\_\_20\_\_\_\_\_\_ (20)

Good design/implementation of class: \_\_\_10\_\_\_\_\_\_\_ (10)

toString() method: \_\_\_10\_\_\_\_\_\_\_ (10)

**QueueInterface<T> methods:**

enqueue(): \_\_\_10\_\_\_\_\_\_\_ (10)

dequeue(): \_\_\_10\_\_\_\_\_\_\_ (10)

getFront(); \_\_\_\_\_5\_\_\_\_\_ (5)

clear(): \_\_\_\_\_5\_\_\_\_\_ (5)

isEmpty(): \_\_\_\_5\_\_\_\_\_\_ (5)

**Reverser interface methods:**

reverse(): \_\_\_\_15\_\_\_\_\_\_ (15)

**SaveRestore interface methods:**

saveToFile(): \_\_\_10\_\_\_\_\_\_\_ (10)

restoreFromFile(): \_\_10\_\_\_\_\_\_\_\_ (10)

**Assig1A runs without change with correct output:** \_\_\_\_\_10\_\_\_\_\_ (10)

**Assig1B runs without change with correct output:** \_\_\_10\_\_\_\_\_\_\_ (10)

**Assignment Information Sheet/Submission:** \_\_\_\_5\_\_\_\_\_\_ (5)

**Documentation:** \_\_\_\_5\_\_\_\_\_\_ (5)

**Subtotal:** \_\_\_\_200\_\_\_\_\_\_ (200)

**Normalized Subtotal (Subtotal/2.0):** \_\_\_100\_\_\_\_\_\_\_ (100)

**Late Penalty:** \_\_\_\_\_\_\_\_\_\_ (-15)

**Extra Credit:** \_\_\_\_\_\_\_\_\_\_ (10)

**Total \_\_100\_\_\_\_ (100)**