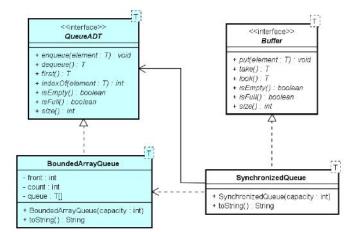
Exercises SDJ2

Exercise SynchronizedQueue - Adapter design pattern

Implement the Adapter design pattern shown – and test it.

Interface Buffer is like a QueueADT but with other names for methods. A few remarks to the implementation (in SynchronizedQueue):

- The class is generic like the Buffer interface
- Association to (i.e. an instance variable of type) QueueADT, and initialized in the constructor to an object of type BoundedArrayQueue.
- All methods are synchronized and are simply delegating to the instance variable



Class BoundedArrayQueue and interface QueueADT are given here:

- MyCollection-1.1.jar: http://ict-engineering.dk/jar/MyCollection-1.1.jar
- javadoc for MyCollection: http://ict-engineering.dk/javadoc/MyCollection/

Interface Buffer is given here:

```
public interface Buffer<T>
{
    public void put(T element);
    public T take();
    public T look();
    public boolean isEmpty();
    public boolean isFull();
    public int size();
}
```

- a) Implement class SynchronizedQueue.
- b) Test your solution.