

## Exercise 3 – Contracts and Testing

You have been assigned the somewhat cryptically named class "Anonymous" for testing and you need to hand in the following information:

- What is the purpose of the class?
- What are the (implicit) contracts of the methods in the class?
- Describe shortly how you would test the class in order to make sure that it works properly. Define at least 4 test cases, two that should succeed and two that should fail.

```
public class Anonymous
{
    final private int MAXSIZE = 10;
    private int last;
    private int first;
    private int size;
    private float[] storage;
    public Anonymous()
    {
        storage = new float[MAXSIZE];
        first = last = size = 0;
    }
    public void en(float v)
    {
        storage[last] = v;
        last = inc(last);
        size++;
    }
    public float de()
    {
        float tmp = storage[first];
        first = inc(first);
        size--;
        return tmp;
    }
    public int inc(int aPos)
    {
        return ++aPos%MAXSIZE;
    }
    public boolean isFull()
    {
        return size == MAXSIZE;
    }
    public boolean isEmpty()
    {
        return size == 0;
    }
}
```