**StudentCollection Corrections**

**Shawn Aparo**

**CSC300**

1. **reset(), Line 126:** The original implementation only set the nextEmptyPosition to zero. It did not remove any of the Student objects. I added a looping condition to visit each element in the collection then set the position to null. When the loop completes, the nextEmptyPosition is then set to zero.
2. **addStudent(), Line 166:** The original implementation of the if statement checked if the studentCount was greater than capacity. The corrected implementation checks if the studentCount is greater than or equal to capacity. This way, the if condition evaluates to true when the collection is full.
3. **retrieveStudentBySID(), Line 206:** Inserted an if statement to check whether the searchKey is null. If so, an IllegalArgumentException.
4. **removeStudentBySID(), Line 330:** The original implementation did not decrement the nextEmptyPosition variable. Given that so much of the logic of the class depends on the value of nextEmptyPosition, this is highly problematic. I inserted a decrement statement.