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CS405

**Module 4 Milestone 4-2**

**Screenshots of console with program running:**

A screenshot of a computer screen

AI-generated content may be incorrect.

**Screenshots of console with program running with always fail commented out:**

A screenshot of a computer program

AI-generated content may be incorrect.

**Summary:**

For this assignment I started how I usually do by running the code to see how it compiles and then moved on to identify the areas that needed to be fixed or worked on. The comments of the TO DOs helped with structure and also helped to identify what was needed to complete the assignment. With this, unit tests were implemented whenever needed to satisfy the specifications of the assignment. For the most part I used Assert to prove the conditions of the unit tests although there were a couple of instances where I chose to us Expect. The rubric called for one positive and one negative test which we can see from the images that they both ran as expected. Following the TO DOs each test was created to perform a certain task. Some of these tests included verifying five single values that were added, max size and capacity were verified to be greater or equal to 0, 1, 5, and 10. There were also a negative tests implemented that would throw an exception when an out of bounds index has been called. Overall, there were 16 test performed with 14 passing. With the always fail test commented out 15 test were performed with 14 passing and 1 failing which was out OneNegativeTest. Finally, I made sure to comment my code clearly and concisely.