Process Summary:

**Test Results**

* 16 total tests implemented (13 required + 3 optional)
* 15 tests passing + 1 intentional failure
* Zero warnings or errors
* 1.3 second execution time

**What Was Built**

* Basic operations: Empty checks, adding elements, size validation
* Memory tests: Resize, clear, reserve functionality
* Error handling: Out-of-bounds access, invalid operations
* Mixed assertions: Used both ASSERT (critical) and EXPECT (non-critical) macros

**Key Achievements**

* All functional tests passing
* Professional code quality with clear comments
* Proper error and exception handling
* Exceeded minimum requirements

**Verification**

* Tests verified in Visual Studio 2022
* All expected outcomes achieved
* Comprehensive vector functionality covered

**Conclusion:** The implementation successfully meets and exceeds all project requirements, demonstrating professional unit testing practices and comprehensive testing of vector class functionality. The test suite provides robust coverage of both normal operations and error conditions while maintaining high standards of code quality and testing methodology. The strategic use of both ASSERT and EXPECT macros ensures both test reliability and comprehensive diagnostic reporting.

