

Lab 11: Unit Testing

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Introduction

In this lab you will get to make a test suite for a linked list class.

Problem 1: Makefile

Create a makefile with at least the following targets:

1. `main` which compiles `main.cpp`
2. `test` which compiles and runs a test suite
3. `coverage` which compiles and runs the test suite, then runs `gcov`
4. `clean` which cleans up all the output files

Feel free to borrow from the example makefile.

Problem 2: Tests

```
do {  
    write_some_tests();  
} while(code_coverage() < 100 || tests_not_passing());
```

Your tests should use test cases and sections to reduce code duplication and logically organize your tests.

You should have unit tests for everything in `List` except the destructor and `iterator()`. Don't worry about testing `Cell`; it'll get tested when you test `List`.

For an example of how to iterate over a list, look in `main.cpp`.

Epilogue

Commit and push your makefile, test files, and any other changes you've made.