

# Lab 11: Unit Testing

Nathan Jarus

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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 `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 a test fixture, since you'll be needing to create quite a few list objects.

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.