

CISC181H Spring 2009 Lab10

- Write a program for each of the following problems. Be sure to save every separate program. All programs must be properly commented and indented (see Assignment Standards on the class website). Ask your TA for guidance.
- Your group can schedule time to talk to the professor about project design issues. Just send an email with some times when you can all meet.

Programs

1. Consider the following function. Demonstrate it and explain its behavior in your comments.

```
int increment() {
    int m = 0;
    return m++;
}
```

2. Download cow.cc. Add an accessor function so that it compiles and runs, and then fix the subtle memory error in a nice, robust way. If you cannot find the subtle memory error, insert print statements until you do¹.
3. Rewrite your LList class as a template class. The insert function should not care about order. Demonstrate using your class with ints and Cows.
4. Prepare for your Friday group update: 5 minutes or less on 0) the minimalist version of the task that you will accomplish first, 1) what you have accomplished since last time, 2) what design issues you are thinking about, and 3) what you plan to do before next Friday. Everybody must present.

You should have a total of 3 programs named lab10.1.cc to lab10.3.cc, plus any makefiles and written answers specified above. Make a single script file (see lab00 for the instructions) where you cat, compile, and run lab code in its final form.

Submit all 3 program files *and* your script on WebCT by midnight before your next lab. Give the paper version of the complete script file **only** on paper to your TA at the **beginning** of your next lab. Note: Cat, compile, and run each program in order - do *not* cat all programs, then compile, etc.

¹Hint: it's subtle.