CS170 Week 8 Lecture 1 Notes

Disclaimer: These notes are meant to be read in parallel with Professor Mead's online notes if you have missed class. Topics will not be covered extensively. Here, you will only see the minor details Prof. Mead spoke about which were not on his topic notes.

Pre-Class Mentions/Q&A
➔ New lab will be handed out today, surprise!
➔ Listlab assignment also handed out.
➔ Only one new function to write in the new lab.
➔ This function should definitely not take more than an hour.
➔ Don't forget to free memory when you delete duplicate nodes.
➔ New labs *may* have Dr Memory and Doxygen errors in the "start here" cpp files.
➔ Due Wednesday, March 2nd (both the lab and listlab assignment).

More Inheritance Continued

Abstract Base Classes
Abstract bast classes – something we don't want the user to instantiate.
If you don't override certain functions from the base class, then the derived class would be abstract.

Function Templates

Overloaded Functions(review)
C++ has a third type – Generic Programming. Very few languages have this.
We realize generic programming in the form of templates.

Function Templates
We now will pass types at compile time instead of run time.
Templates must be in header files.
Today was only the beginning of templates. Next Friday, we'll go much more in-depth.