CS250 Exam #3 Review Material

- Inheritance
- Superclass
- Subclass
- Base class
- Derived class
- is-a
- has-a
- composition
- overloading
- public vs private vs protected members in general
- dynamic memory (new, delete, heap)
- this, \*this
- memory leak
- copy constructor
- memberwise assignment
  - difference between Person cTempPerson = cPerson and cTempPerson = cPerson
- destructor
- regular variable versus pointer variable (int versus int \*, char versus char \*, ...)
- sizeof
- address operator &
- dereference operator \*, ->
- pointer operations (pInt + 2, \*(pInt + 2), ++pInt, pInt++...)
- activation record
- difference between arrays and pointers
- writing code using array notation versus pointer notation
- pointers as function arguments
- null pointer
- strings as char \*
- cout << pName; versus cout << \*pName;</li>
- problem with pName = "joe";
- int \* versus const int \* versus int \* const