

## Basics5 – Inheritance

### Due Date

- See Piazza for due date and time
  - Grading the next day
- Submit program to perform in your student directory
  - Sub directory called:
    - /Basics5/...
  - Fill out your **Basics5 Submission Report.pdf**
    - Place it in the same directory as your solution
    - Enter the final Changelist number of your submission
    - Enter the number of test passed
    - Write up a quick discussion in the report
      - What you learned from this basics

### Goals

- Inheritance
  - Public
    - Initialization order
    - Side effects
  - Multiple Inheritance
  - Not that scary or is (getting close to Halloween)
  - Increasing C++ knowledge and understanding

### Assignments

- General:
  - Modify / Add code to the functions in the following files:
    - `Wrapper.h`
    - `A.h`
    - `C.h`
    - `E.h`
    - `M.h`
  - Follow the instructions provided
    - comment section in the function
  - Run the Unit Tests to verify progress / success
    - 5/5 is the best for this program
- Make sure that your program compiles and runs
  - Warning level 4 sometimes that is not possible due to MS headers...
  - Your code should be squeaky clean.
- We are using Perforce
  - You should have received the document describing how to login.
    - Please look at the documentation and videos under the reference directory

- Submit program to perform in your student directory
  - Sub directory called: /Basics5/...
    - As described above
- All your code must compile from perform with no modifications.
  - Otherwise it's a 0, no exceptions

#### Validation

*Simple check list to make sure that everything is checked in correctly*

- Did you do all run all unit tests problems?
- Do they compile and run without any errors?
- Did you fill out the submission report?
- Warning level 4 free?
- Submitted it into /Basics5 directory - without the extra files?
- Can you delete you local drive, regrab the Basics5 directory?
  - Is all the code there?

#### Hints

Most assignments will have hints in a section like this.

- This is very easy Basic assignment
  - Only thing that might slow you down "Understanding multiple inheritance"
  - Read the book
- I expect this assignment to be completed quickly for most of the students
  - Please make sure you fully understand the commands in this code
    - Look at the memory layout to understand what is really going on.
  - Many little lessons here for those who put in the effort.
- Why do programmers love Halloween and Christmas?
  - OCT 31 == DEC 25
- Enjoy