

# Copy Constructors & Destructors

CS 165 – Object Oriented Software Development

Macbeth – Lesson 13.3



# Agenda

---

- Music Friday
- Opening Prayer
- Copy Constructors
- Operator Overloading Practice
- Asteroids Q&A
- Looking Forward

# Music Friday

---

## Once in Royal David's City (Hymn 205)

Once in royal David's city  
Stood a lowly cattle shed,  
Where a mother laid her baby  
In a manger for his bed:  
Mary was that mother mild,  
Jesus Christ her little child.

# Asteroids Minimum Requirements

---

- To obtain an "A" on the Asteroid Project, you must meet the following minimum requirements:
  - The game starts with 5 large asteroids placed randomly on the board
  - Ship thrusts forward with up arrow and will rotate with left and right arrows.
  - Bullets are fired based on the direction of the ship and die after 40 frames.
  - Large rocks and Medium Rocks split (with correct angle and speed) per the project description. Small rocks do not split.
  - All objects wrap around the screen.
  - Descriptive comments added before each function (if implemented inline in the .h file, the comments need to be added there as well).
- To obtain bonus points, you must:
  - Meet all requirements above (including comments) – if not met, then no bonus points will be given.
  - Add additional functionality to the game.
  - Summary of additional functionality must be provided in the makefile comments

# Looking Forward

---

- Last Day to Submit Any Missed Work is Wed, Dec 13th
- Final Exam – Wed, Dec 13<sup>th</sup> during class (we will practice on Monday)
- Final Asteroids Project – End of the day Wed, Dec 13th