

Problem Set 4

Due: Tuesday, 7/31, 4:00am

Objectives:

- **Practice implementing design patterns**

Detailed Requirements

For this assignment you will implement [Connect Four](#). The game is played by two players who alternate dropping chips into a 7-column, 6-row grid. The first player to get 4 in a row wins.

Feature requirements include:

- A Swing GUI
- Support for 2-players playing at the same machine
- Support for a computer opponent that looks ahead a single move and makes that move if it results in a win.

Design requirements include:

- Proper use of the Observer, Builder, Factory, and Singleton factory patterns.
- Unit tests for the non-GUI code.