

1. Team Cookies
2. Member information
 - a. Kaya, Computer Science and Software Engineering major
 - b. Lloyd, Computer Science and Software Engineering major
 - c. Tony, Computer Science and Software Engineering major
3. Project description
 - We plan to build a Sea Battle game to be played on the console. Each player has their own board of empty squares, which the server will randomly populate with 8 ships. They can also see their opponent's board, but not the ships on that board. Players alternate turns entering locations they believe the opponent's ships reside, and will receive confirmation and a board marker from the server for each guess. Before entering their location, a player may also enter a message they wish to be seen by the other player. Once a player has correctly guessed all enemy ship locations, the game ends, and that player wins the game.
 - Two-player board game
 - Text-based
 - C++
 - Server-client architecture
 - The game and its code will reside on the server. Players will send messages and attack instructions (a1, b2, c3) in their console, and receive back the game state from the server. In this manner, players are able to interact with the game.

Example:

```
uw1-320-10:~$ here?
> d2
#####

player:   opponent:
abcdef   abcdef
1■■■■■  1■■■■■
2○○●■■  2●●●■■
3■■■■■  3■■■■■
4■■■■○  4■■■■■
5○●■■○  5■■■■■
6○●■■○  6■■■■■

turn 7: hit and
sink!
sent message: here?
waiting for
```

```
opponent.  
#####
```

4. Tentative schedule

Week 1: Prepare game assets (graphics, console messages, etc.)

Week 2: Study networking fundamentals

Week 3: Practice networking in C++

Week 4: Practice server-client architecture in C++

Week 5: Create “mock” game allowing players to send messages over the server

Week 6: Begin Sea Battle development on top of mock game

Week 7: Unit tests, integration tests

Week 8: Submit project, implement extra credit material if ahead of schedule

5. Tentative tasks for each member

a. Kaya

Server-client implementations, unit tests.

b. Lloyd

Game assets, Sea Battle development, integration tests, server-client implementations.

c. Tony

Server-client implementations, create mock game.

6. Repository URL

https://github.com/kpeng09/CSS432_19A_TeamCookies