**Battleship Rules – Megan Lahm & Dylan Prince**

The classic game of Battleship is brought to you in the comfort of a console. The goal of the game is to sink the opponents’ 5 ships (which vary in size), by guessing coordinate locations on the board. Simultaneously, the opponent will also be guessing coordinates in order to sink your ships first.

Setup:

* The GUI consists of four sections, the top left is a visual of your opponent’s board. While you are not able to see where they have placed their ships, it allows you to see where you have guessed, including misses and hits of ships. The bottom left sector is your own board, this is where you will place your ships, and will see the guesses of your opponent. At the bottom right, various buttons are used to place your ships (specifying which ship and the direction it will be placed in). The top right sector is the message center, which updates where the AI (opponent) has moved.
* Before the game begins, you will be asked which difficulty of AI you wish to play against, ‘0’ being the AI that guesses sequentially, and is not intelligent, and ‘1’ being the more strategic opponent. Once this selection is made, the game will proceed.
* At the start of the game, you must place your ships on your board. This is done by selecting which ship you would like to place by clicking the respective button. Then, checking the orientation, you may choose to switch between horizontal and vertical. Now, you may click a location on your board, which will (if possible) place the selected ship in the designated direction, according to your preference. Your option will be shown before you click the location, by highlighting the location you hover over. Once the ships are placed, the opponent’s board will become active, and you may begin to guess.

Game Play:

* Guesses are made by clicking a peg location on the opponent’s board. If your guess is a hit, then the peg will change to be red, and you may continue guessing until you ‘miss’, which will change the peg to be white.
* The AI similarly will guess on your board, turning your pegs either red or white, depending on the result of the guess.
* When either you or the AI has sunk all the other’s ships, the game will be ‘over’.
* To begin another game, click the ‘’ button

**How the AI works – Megan Lahm & Dylan Prince**

Player:

AI: