```
File: main.cpp
                      Author: Daniel Baca
                                                                                                               main
                 Created on October 27th, 2022.
                            6:14 PM
                 Purpose: Version 5 - Battleship
                                                                                                      //Declare all variables
                                                                                                struct Players * plyrs = new Players;
                                                                                                           int count1=0;
                                                                                                           int count2=0;
                       //System Libraries
                                                                                                          bool gme ovr;
                      #include <iostream>
                                                                                                           char choice;
                      #include <iomanip>
                        #include <string>
                        #include <ctime>
                       #include <cstdlib>
                                                                                                    //Declare the two text files
                       #include <cmath>
                                                                                                         ofstream plyr_1file;
                       #include <fstream>
                                                                                                         ofstream plyr_2file;
                       #include <cstring>
                     using namespace std;
                                                                                                      //Open the binary file
                                                                                                             fstream file;
              //Structure for all player information
                                                                                       file.open("Players Info", ios:: in | ios::out | ios:: binary);
                        struct Playerinfo
                     char player_name[100];
                          string ships[5];
                      int ship coors[20][20];
                                                                                                     //Open the two text files
                string * shts_frd = new string[100];
                                                                                                     plyr_1file.open("Player_1");
                                                                                                     plyr_2file.open("Player_2");
                    char player_board[10][10];
                   char enemy board[10][10];
                 string ship_name[5] = {"Carrier",
                     "Battleship", "Cruiser",
                            "Submarine", "Destroyer"};
                                                                                      //Display and output the beginning of the board game
                                                                                                    "----- Battleship -----
                                                                                                  The classic strategy board game!!!
                                                                                                    ---- Somethings to know -----
                                                                                                         Carrier Size (5 spaces)
//Structure holding information needed for the array of structures
                                                                                                      Battleship Size (4 spaces)
                         struct Players
                                                                                                     Cruiser Size (3 spaces)
                                                                                                    Submarine Size (3 spaces)
                        const int SIZE = 2;
                                                                                                       Destroyer Size (2 spaces)
                      const int numshps = 5;
                                                                                        --- Keep this in mind for when you place your ships!!! ---
                        Playerinfo * info;
                                                                                        --- Once the game starts and each player can shoot ---
                                };
                                                                                        --- you can input Q to Quit the Game whenever.
          //Enum format for player boards output loop
                                                                                                 //Receive both player's starting
               enum grid {A,B,C,D,E,F,G,H,I,J,K};
                                                                                                            information
                                                                                                        plyrs = game_start();
                     //Function Prototypes
                                                                                                    //Convert the user input to
                   Players *game start();
                                                                                                   usable coordinates using the
                  void coorTonum(Players *);
                                                                                                             function
                  void numToboard(Players *);
                                                                                                         coorTonum(plyrs);
            void disp board1(Players *,ofstream &);
            void disp_board2(Players *,ofstream &);
                bool shooting1(Players *,int &);
                bool shooting2(Players *,int &);
            void prntTofile(Players*,int,ofstream &);
                                                                                                     //Go to function to setup
            void prntToBinFile(Players *,fstream &);
void BinFileToprnt(Players *,fstream &);
                                                                                                       coordinates to board
                                                                                                         numToboard(plyrs);
```





























