

Institutely for the game board I was thinking of using a Coordinate system, but that would be complicated for the user, SO I decided to Utilize a numbering system 11373, the user would only need to input the number corresponding to the space desmed. This also simplifies the board from a 2D array to a simple array. (though the Index is offset by one, because It is more natural for a user to start at 1 replan than 0) User is prompted User Is prompted Player If user or CPU goesfirst for desired location TNO Check's Validity cpu selects a location of button Cheeks Stores location in your bound Sore No wh Check wm condition End 2:10 pm 731. Started coding, beginning with creating the class, and its member functions, with the intention of creating the functions that need to interact with the private array that acts as the game bound. Created a member function that changes what character is placed on the board depending on the current player - created a member function that displays the correct game board and clears all prior into from the console - Created a wember function that cheeks it most location still has its deholt value, if it does it replaces it with the Corrent player's symbol

3:20pm 7-31. Player function is created, allowing me to confirm the effectiveness Of the previously made member functions. With the creation of the function added a warming message to worn the user of improper impuls · With the ability for me to munipulate the army from within the program now, I begin working on the checks on um condition, I created 4 member houtons for the different was conditions, mutching 3 diagonally, harronkilly, westrally, and running out of spaces to use. I then created a Function within the class that systematically cheeks each functions and returns whether the win conditions have been met, and also displays an appropriate message depending on the condition met. 4:00pm · I then created the CPU, due to time constraints I was restricted to use randomly selected positions with the CPU with rand and srend. With the other player I can fest the win conditions. · The column and row checks falled to stop the progres, and figured out that there were some logical errors that stoped the checks from propperly proceeding, and by adjusting them slightly the problem us fred. 4:45 pm Program Completed Gollowing adjustments mude to the mun function to remove all deby code. - Following completing the code, I left for work 2:30-3:00 - Set up git hub and generated a repository as per motivations Project 1:30 - 4:45 3hr 15mm

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