Tic-Tac-Toe

Submit Assignment

Due Friday by 11:59pm **Points** 100 **Submitting** a file upload

"Tic-tac-toe, also called noughts and crosses (in the British Commonwealth countries), X's and O's (in Ireland) and X and 0 (in India) is a pencil-and-paper game for two players, X and O, who take turns marking the spaces in a 3×3 grid. The X player usually goes first. The player who succeeds in placing three respective marks in a horizontal, vertical, or diagonal row wins the game." (Wikipedia)

Create an advanced, flexible tic-tac-toe game for the console. The game should work as follows:

1. Ask if the player would like to resume a saved game. If yes, load game state from a text or binary file (your choice of file format).

For a new game, ask how many players are playing as a prompt on its own line. The maximum number of players is 26.

For a new game, ask how large the board should be as a prompt on its own line. The maximum number is 999.

For a new game, ask what the win sequence count should be (i.e. 3 would be normal standard tic-tac-toe) as a prompt on its own line.

For a new game, check to ensure that winning is possible given the criteria specified, and display an error and guit if not.

2. Output a board in the following general format:

No other board format will be accepted. You must number the rows and columns, not each box. You can treat the screen as infinitely large, so if you run out of screen space, do not worry about it wrapping or having scroll bars appear. The maximum number of rows/columns will be 999, so three spaces is enough.

2. Repeat the following process over and over again until the user saves and quits, the game is won, or a tie occurs:

Ask the user for a row and column number separated by spaces, or Q to quit. Put the appropriate symbol for that player in the specified spot. Players should be given the following symbols, in

order: XOABCDEFGHIJKLMNPQRSTUVWYZ

If the user chooses instead to save and quit, ask them for a filename in a prompt on its own line. Then, save to that file and quit.

If you are confused about the rules of Tic-Tac-Toe, please consult the Wikipedia page.

Note: You must not submit your "node_modules" folder if you are working on NodeJs/JavaScript. (Just submit your JavaScript source code and package.json file)

Tic Tac Toe

Criteria Users are prompted to enter a game option (start a new game or resume a saved game)	Ratings		Pts
	2.5 pts Full Marks	0.0 pts No Marks	2.5 pts
Users are prompted to enter game options (start a new game or resume the saved game)	, maine	a.	2.0 pto
Prompts user for # of players (max of 26)	2.5 pts Full Marks	0.0 pts No Marks	2.5 pts
Prompts user for the board size (max 999x999)	2.5 pts Full Marks	0.0 pts No Marks	2.5 pts
Prompts user for the win sequence	2.5 pts Full Marks	0.0 pts No Marks	2.5 pts
Player symbols are "XOABCDEFGHIJKLMNPQRSTUVWYZ"	5.0 pts Full Marks	0.0 pts No Marks	5.0 pts
Requests user for row and column separated by spaces	5.0 pts Full Marks	0.0 pts No Marks	5.0 pts
Error is displayed or Quit the game if winning is not possible or appropriate	5.0 pts Full Marks	0.0 pts No Marks	5.0 pts
Correct board format for all sizes	15.0 pts Full Marks	0.0 pts No Marks	15.0 pts
Correct win, lose, or tie scenarios	20.0 pts Full Marks	0.0 pts No Marks	20.0 pts
Prompts user to quit the game	2.5 pts Full Marks	0.0 pts No Marks	2.5 pts
Prompts user to save the game	2.5 pts Full Marks	0.0 pts No Marks	2.5 pts

Criteria	Rat	ings	Pts
User is prompted to save a file, asking a file name, and saving file	5.0 pts Full Marks	0.0 pts No Marks	5.0 pts
Player can resume from saved game	10.0 pts Full Marks	0.0 pts No Marks	10.0 pts
Working code and coding style	10.0 pts Full Marks	0.0 pts No Marks	10.0 pts
On time submission	10.0 pts Full Marks	0.0 pts No Marks	10.0 pts
		Total Po	ints: 100.0