Homework 28

Two friends are playing a game. The first player has a 4 by 4 grid and the second player has a 1 by 4 grid.

The first player enters X’s and/or O’s into the first row. The second player then puts an X or an O in the first square of his grid. The first player then enters X’s and/or O’s in the second row of the grid. The second player then puts an X or an O in the second square of the grid. The play continues similarly until each grid is full. Player 1 wins if one of the rows in his grid matches the grid of player 2 at the end. Player 2 wins otherwise. Does one of the players have a winning strategy? What is it?

Example:

Player 1 first turn.

X O X X

Player 2 first turn.

O