Lab Goal: This lab was designed to teach you how to use a matrix, an array of arrays.

Lab Description: Read in the values for a tic tac toe game and evaluate whether X or O won the game. The first number in the files represents the number of data sets to follow. Each data set will contain a 9 letter string. Each 9 letter string contains a complete tic tac toe game.

Sample Data:



of data sets in the file - 5

Sample Output:

```
X X X
OOX
X \circ O
X wins horizontally!
0 X 0
0 X 0
X \circ X
cat's game - no winner!
0 X 0
X X O
X \circ O
O wins vertically!
O X X
0 X 0
X \circ O
X wins diagonally!
X \circ X
0 0 0
X X O
O wins horizontally!
```

Files Needed ::

TicTacToe.java TicTacToeRunner.java tictactoe.dat

algorithm help

The determineWinner method goes through the matrix to find a winner. It checks for a horizontal winner first. Then, it checks for a vertical winner. Lastly, it checks for a diagonal winner. It must also check for a draw. A draw occurs if neither player wins.

You will read in each game from a file and store each game in a matrix. The file will have multiple games in it.