## 2D ARRAYS

 An array with two dimensions can be used to represent data that corresponds to a grid. For example, a checkerboard, the streets in a city, and seats in a theater call all be represented with a grid. A tic-tac-toe board represented in a twodimensional array can be visualized as:

	0	1	2
0	X	0	X
1	X	X	0
2	0	0	0

- When you declare a one-dimensional array, you type a single, empty set of square brackets after the array type, and you
  use a single subscript in a set of square brackets when reserving memory.
- To declare a two-dimensional array, you type a comma in the square brackets after the array type, and you use two subscripts, separated by a comma in brackets, when reserving memory.
- . For example, creating an array named sales that holds three rows and four columns:

sales[0, 0]	sales[0, 1]	sales[0, 2]	sales[0, 3]
sales[1, 0]	sales[1, 1]	sales[1, 2]	sales[1, 3]
sales[2, 0]	sales[2, 1]	sales[2, 2]	sales[2, 3]