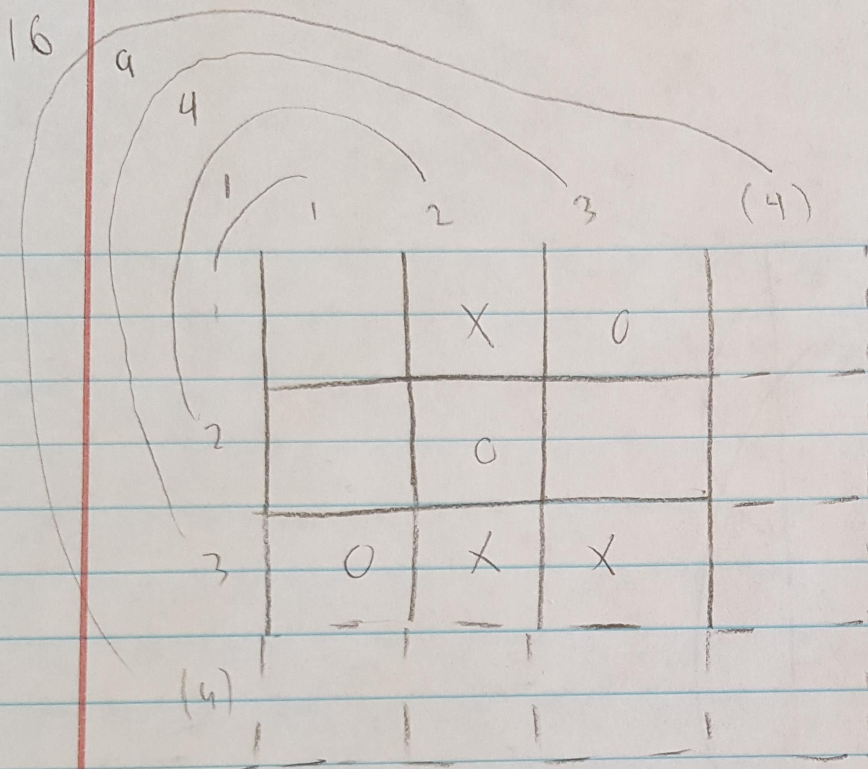


16



Since this is a game of tic tac toe, the grid must always be a square. That means the runtime complexity is  $O(n^2)$ .



Sidenote: If the grid only expands one way  
(either width or height), then the complexity space  
wise would be linear.  $O(n)$ .