CS 62 Quiz

Mallocing a 2D Array Mawhorter Spring 2017

(Please write your name at the bottom of the back page of this quiz)

Look at the following code which allocates a 3x3 array of integers:

```
int main(int argc, char** argv) {
   int rows = 3;
   int cols = 3;

   int **array = malloc(rows*sizeof(int*));
   int *row = malloc(cols*sizeof(int));

   for (int r = 0; r < rows; ++r) {
      array[r] = row;
   }

// some code that uses the array
}</pre>
```

1. This code doesn't work as intended (the array was going to be used to play a game of tic-tac-toe). Explain why, and explain what happens when we change the first element of the array to a 1 using array[0][0] = 1 (hint: the code doesn't crash).

	is 4 and sizeof(indexisted de allocate? In order hould it allocate?		
Name:			