RECURSION MAZE

Using a recursive solution, you will determine if there is a path through a maze. Your output should be the maze with the path from the entrance to the exit. The entrance and exit can occur anywhere within the boundaries of the maze. It is possible that no solution exists for the maze -- if this is the case, you should display a message that no solution exists.

The input file format for the maze is as follows:
- number of rows in the maze
- number of columns in the maze
- the maze itself

Here is a sample input file:

```
6
6
###S##
.....#
#.####
#.###G
...#..
##...#
```

'.' - where you can move (open positions)
'#' - obstacles (blocked positions)
'S' - start position (here, row=0, col = 3)
'G' - goal (here, row =3, col= 5)

Note: As you are reading in the maze from the file, you should determine where the 'S' position is and keep track of that as the starting point of your recursion.