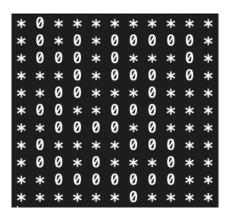
CENG 2002 - Data Structures - Spring 2021 Homework #2

Due date: 14/04/2021 - 10:30

Assignment: Write a maze runner using stacks.

- * It should read the maze from a file and store in a 2D array.
- * Walls are marked with "*" and corridors are marked with "0"
- * An agent should find a route automatically from start to end in the maze.
- * The agent can move in N, S, W, E. It cannot move diagonally
- * The agent cannot pass through walls.
- * The program should figure out the entrance in the first row, similarly it should figure out the end point.
- * There is only one entrance and one exit
- * The program should work for any maze size. (Maze is not necessarily square)
- * The program should mark the route with "+"s.

A sample maze:



Notes:

- * You MUST implement in C++.
- * The solution should NOT use recursion.
- * It MUST use stacks.
- * You MUST use your own implementation of stack class.
- * If the program shows step by step moves in an animation, it is considered as bonus. (10 pts)

Submit:

· All cpp and header files.

Late submission:

· You get no credits