**y** f

Note: While it doesn't affect the correctness of your algorithm in general, for the marker it is important to visit neighbours of the current cell in the correct order: down, left, up, right.

## 6.5.5 Sample Input/Output

You will receive the following input format on stdin:

- 1. The first line will contain 2 integers, m and n, separated by a space. These numbers represent the number of rows and columns in the grid respectively.
- 2. There will then be m lines each with n columns that represent the maze.
  - A space represents an open block in the world. You may travel through this block.
  - An x represents an obstacle. You may not travel through this block.
  - An s represents the start.
  - A G represents the goal.
- 3. The output should be the maze with \* characters along the shortest path from the start to the goal.

  1 If there is no path between the start and goal, then the output should say No Path.