

DESCRIPTION

DRAFTS

SOLUTIONS

COMMENTS

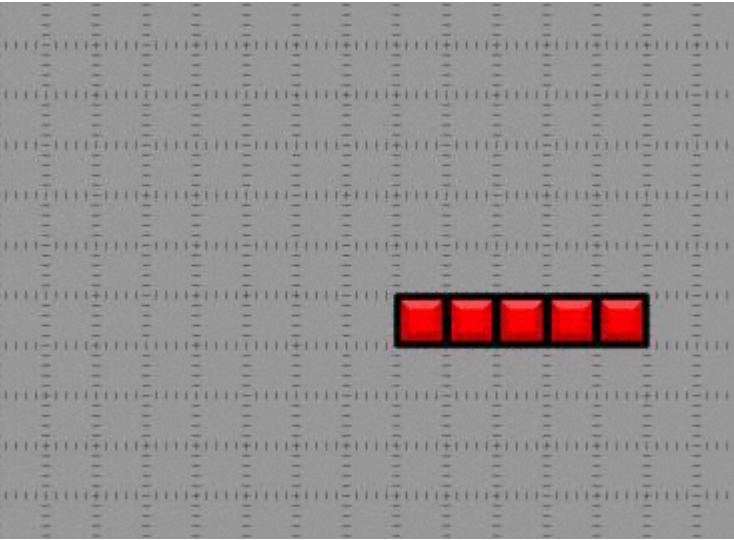
README

🚩 Hard

📄 Codewriting

🏆 300

Your task is to imitate a turn-based variation of the popular "Snake" game.



You are given the initial configuration of the board and a list of commands which the snake follows one-by-one. The game ends if one of the following happens:

- the snake tries to eat its tail;
- the snake tries to move out of the board;
- it executes all the given commands.

Output the board configuration after the game ends.

Example

```
snakeGame([[ '.', '.', '.', '.'],
            [ '.', '.', '<', '*'],
            [ '.', '.', '.', '*']],
            "FFFFFFFRRLLF") =
            [[ '.', '.', '.', '.'],
             ['X', 'X', 'X', '.'],
             [ '.', '.', '.', '.']]

snakeGame([[ '.', '.', '^', '.', '.'],
            [ '.', '.', '*', '*', '.'],
            [ '.', '.', '.', '*', '*']],
            "RFRF") =
            [[ '.', '.', 'X', 'X', '.'],
             [ '.', '.', 'X', 'X', '.'],
             [ '.', '.', '.', 'X', '.']]

snakeGame([[ '.', '.', '*', '>', '.', '.'],
            [ '.', '*', '*', '.', '.'],
            [ '.', '.', '.', '.', '.']],
            "FRFFRFFRFLFF") =
            [[ '.', '.', '.', '.', '.'],
             [<', '*', '*', '.', '.'],
             [ '.', '.', '*', '.', '.']]
```

Input/Output

- [execution time limit] 4 seconds (js)
- [input] array.array.char gameBoard

A rectangular matrix of characters. It is guaranteed that it represents a correct game board configuration, i.e. there is exactly one snake. Direction of snake's head is depicted by one of the following characters ( '^', '>', 'v', '<' ). All of the other snake's body parts are depicted by '\*' s (note, that if the snake has length 1 then there is no asterisks in its representation). All cells which are not occupied by the snake are depicted by '.' s.

It is guaranteed that **all snake cells are connected** and **no snake cell has more than two neighbors**.

Guaranteed constraints:

1 ≤ gameBoard.length ≤ 10 ,

1 ≤ gameBoard[0].length ≤ 10 .

- [input] string commands

A list of commands, where 'F' means go one cell forward in the current direction, 'L' and 'R' mean change current direction 90 degrees left (counter-clockwise) or right (clockwise) correspondingly.

Guaranteed constraints:

0 ≤ commands.length ≤ 40 .

- [output] array.array.char

Configuration of the board after the end of the game.

If the snake dies, output its state before the losing move and replace each of the cells it occupied with 'x' s.

[JavaScript (ES6)] Syntax Tips

```
// Prints help message to the console
// Returns a string
function helloWorld(name) {
    console.log("This prints to the console when you Run Tests");
    return "Hello, " + name;
}
```