3248. Snake in Matrix

Solved ●

Easy Topics Hint

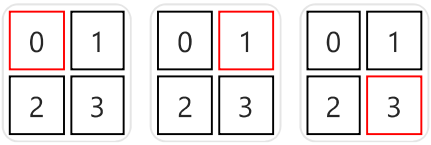
There is a snake in an `n x n` matrix `grid` and can move in **four possible directions**. Each cell in the `grid` is identified by the position: `grid[i][j] = (i * n) + j`.

The snake starts at cell 0 and follows a sequence of commands.

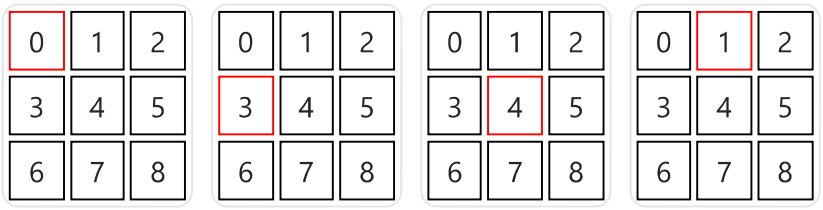
You are given an integer `n` representing the size of the `grid` and an array of strings `commands` where each `command[i]` is either `"UP"`, `"RIGHT"`, `"DOWN"`, and `"LEFT"`. It's guaranteed that the snake will remain within the `grid` boundaries throughout its movement.

Return the position of the final cell where the snake ends up after executing `commands`.

Example 1:

> **Input:** n = 2, commands = ["RIGHT","DOWN"]
>
> **Output:** 3
>
> **Explanation:**
>
> 
>

Example 2:

> **Input:** n = 3, commands = ["DOWN","RIGHT","UP"]
>
> **Output:** 1
>
> **Explanation:**
>
> 
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Constraints:

- `2 <= n <= 10`
- `1 <= commands.length <= 100`
- `commands` consists only of `"UP"`, `"RIGHT"`, `"DOWN"`, and `"LEFT"`.
- The input is generated such the snake will not move outside of the boundaries.

Seen this question in a real interview before? 1/5

Yes No

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Topics

Hint 1

Discussion (6)