

Problem List

DescriptionEditorialSolutionsSubmissions

1427. Perform String ShiftsPremium

Solved

EasyTopicsCompaniesHint

You are given a string `s` containing lowercase English letters, and a matrix `shift`, where `shift[i] = [directioni, amounti]`:

- `directioni` can be `0` (for left shift) or `1` (for right shift).
- `amounti` is the amount by which string `s` is to be shifted.
- A left shift by `1` means remove the first character of `s` and append it to the end.
- Similarly, a right shift by `1` means remove the last character of `s` and add it to the beginning.

Return the final string after all operations.

Example 1:

Input: `s = "abc", shift = [[0,1],[1,2]]`

Output: `"cab"`

Explanation:

`[0,1]` means shift to left by 1. `"abc" -> "bca"`  
`[1,2]` means shift to right by 2. `"bca" -> "cab"`

Example 2:

Input: `s = "abcdefg", shift = [[1,1],[1,1],[0,2],[1,3]]`

Output: `"efgabcd"`

Explanation:

`[1,1]` means shift to right by 1. `"abcdefg" -> "gabcdef"`  
`[1,1]` means shift to right by 1. `"gabcdef" -> "fgabcde"`  
`[0,2]` means shift to left by 2. `"fgabcde" -> "abcdefg"`  
`[1,3]` means shift to right by 3. `"abcdefg" -> "efgabcd"`

Constraints:

- `1 <= s.length <= 100`
- `s` only contains lower case English letters.
- `1 <= shift.length <= 100`
- `shift[i].length == 2`
- `directioni` is either `0` or `1`.
- `0 <= amounti <= 100`

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

YesNo

Accepted 79.9K | Submissions 146.1K | Acceptance Rate 54.7%

Topics

Companies

Hint 1

Hint 2

Discussion (4)

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241

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Python3Auto

```
1 class Solution:
2     def stringShift(self, s: str, shift: List[List[int]]) -> str:
3
4         s = list(s)
5
6         length = len(s)
7
8         for each in shift:
9             each[1] = each[1] % length
10            if each[0] == 0:
11                s = s[each[1]:] + s[:each[1]]
12
13            else:
14                s = s[-each[1]:] + s[:-each[1]]
15
16        return "".join(s)
17
```

SavedLn 13, Col 18

TestcaseTest Result

AcceptedRuntime: 52 ms

Case 1Case 2

Input

s =

"abcdefg"

shift =

[[1,1],[1,1],[0,2],[1,3]]

Output

"efgabcd"

Expected