

Perform String Shifts

Submission Detail

31 / 31 test cases passed.

Runtime: 8 ms

Memory Usage: 21.4 MB

Status: Accepted

Submitted: 0 minutes ago

Accepted Solutions Runtime Distribution

Sorry. We do not have enough accepted submissions to show distribution chart.

Accepted Solutions Memory Distribution

Sorry. We do not have enough accepted submissions to show distribution chart.

Invite friends to challenge Perform String Shifts



Submitted Code: 0 minutes ago

Language: swift

Edit Code

```
1 class Solution {
2     func reduceShifts(_ shift: [[Int]]) -> Int {
3         return shift.reduce(0) { (prev, next) -> Int in
4             return next[0] == 0 ? prev + next[1] : prev - next[1]
5         }
6     }
7
8     func shiftLeft(_ s: String, _ positions: Int) -> String {
9         return s.string(from: positions, upTo: s.count)! + s.string(from: 0, upTo: positions)!
10    }
11
12    func shiftRight(_ s: String, _ positions: Int) -> String {
13        return s.string(from: s.count - positions, upTo: s.count)! + s.string(from: 0, upTo: s.count - positions)!
14    }
15
16    func stringShift(_ s: String, _ shift: [[Int]]) -> String {
17        let shifts = reduceShifts(shift)
18        //myPrint(shifts)
19        let normalizedShifts = abs(shifts) % s.count
20        //myPrint(normalizedShifts)
21
22        if normalizedShifts == 0 {
23            return s
24        }
25
26        if shifts > 0 {
27            return shiftLeft(s, normalizedShifts)
28        } else {
29            return shiftRight(s, normalizedShifts)
30        }
31    }
32 }
33
34 public extension String {
35     func index(at i: Int) -> String.Index? {
36         guard i < self.count && i >= 0 else {
37             return nil
38         }
39         var index = self.startIndex
40         formIndex(&index, offsetBy: i)
41         return index
42     }
43
44     func string(at i: Int) -> String? {
45         guard let index = index(at: i) else {
46             return nil
47         }
48
49         return String(self[index])
50     }
51
52     subscript(i: Int) -> String? {
53         return self.string(at: i)
54     }
55
56     func string(from i: Int, upTo j: Int) -> String? {
57         guard let index1 = index(at: i) else {
58             return nil
59         }
60
61         if let index2 = index(at: j) {
62             return String(self[index1..
```

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