Contest/) Explore Problems(/problemset/all/) Mock(/interview/) Contest Discuss(/discuss/) Storedata=eyJ1cmwiOiAiaHR0cHM6Ly9sZWV0Y29kZS5jb20vZGlzY3Vzcy9nZW

5686. Minimum Number of Operations to Move All Balls to Each Box

My Submissions (/contest/weekly-contest-229/problems/minimum-number-of-operations-to-move-all-balls-to-each-box/submissions/)

Back to Contest (/contest/weekly-contest-229/)

You have n boxes. You are given a binary string boxes of length n, where boxes[i] is '0' if the ith box is empty, and '1' if it contains one ball.

In one operation, you can move **one** ball from a box to an adjacent box. Box i is adjacent to box j if abs(i - j) == 1. Note that after doing so, there may be more than one ball in some boxes.

Return an array answer of size n, where answer[i] is the minimum number of operations needed to move all the balls to the i^{th} box.

Each answer[i] is calculated considering the initial state of the boxes.



Example 1:

```
Input: boxes = "110"
Output: [1.1.3]
Explanation: The answer for each box is as follows:
1) First box: you will have to move one ball from the second box to the first box in one operation.
2) Second box: you will have to move one ball from the first box to the second box in one operation.
3) Third box: you will have to move one ball from the first box to the third box in two operations, and move one ball from the
```

Example 2:

```
Input: boxes = "001011"
Output: [11,8,5,4,3,4]
```

Constraints:

- n == boxes.length • 1 <= n <= 2000
- boxes[i] is either '0' or '1'.

```
d c
JavaScript
1 • /**
     * @param {string} boxes
 2
     * @return {number[]}
 3
 4
 5 ,
    const minOperations = (s) => {
        let n = s.length;
 6
 7
        let res = [];
 8
        let oneIdx = [];
        for (let i = 0; i < n; i++) {
 9 ,
            if (s[i] == '1') oneIdx.push(i);
10
11
        for (let i = 0; i < n; i++) {
12 •
13
            let move = 0;
14 ▼
            for (const idx of oneIdx) {
15
                 idx >= i ? move += idx - i : move += i - idx;
16
17
            res.push(move);
18
19
        return res;
20
    };
```

United States (/region)