^{Day 7} Problems(/problemset/all/)

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5840. Minimum Number of Swaps to Make the String Balanced

My Submissions (/contest/weekly-contest-253/problems/minimum-number-of-swaps-to-make-the-string-balanced/submissions/)

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You are given a **0-indexed** string s of **even** length n . The string consists of **exactly** n / 2 opening brackets '[' and n / 2 closing brackets ']'.

A string is called balanced if and only if:

- · It is the empty string, or
- It can be written as AB, where both A and B are balanced strings, or
- It can be written as [C], where C is a **balanced** string.

You may swap the brackets at any two indices any number of times.

Return the minimum number of swaps to make s balanced.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:

```
Input: s = "][]["
Output: 1
Explanation: You can make the string balanced by swapping index 0 with index 3.
The resulting string is "[[]]".
```

Example 2:

```
Input: s = "]]][[["
Output: 2
Explanation: You can do the following to make the string balanced:
- Swap index 0 with index 4. s = "[]][[]".
- Swap index 1 with index 5. s = "[[][]]".
The resulting string is "[[][]]".
```

Example 3:

```
Input: s = "[]"
Output: 0
Explanation: The string is already balanced.
```

Constraints:

```
n == s.length
```

- $2 \le n \le 10^6$
- n is even.
- s[i] is either '[' or ']'.
- The number of opening brackets '[' equals n / 2, and the number of closing brackets ']' equals n / 2.

```
JavaScript
1 \vee const minSwaps = (s) => {
2
        let n = s.length;
3
        let inversions = open = 0;
        for (let i = 0; i < n; i++) {
4 ▼
            if (s[i] == '[') {
```

```
8/7/2021
                                             Minimum Number of Swaps to Make the String Balanced - LeetCode Contest
     6
                       open++;
    7 ▼
                  } else {
    8 ▼
                       if (open) {
    9
                           open--;
   10 •
                       } else {
   11
                            inversions++;
   12
                            open = 1;
   13
                      }
   14
                  }
   15
             }
             return (inversions + (open >> 1)) >> 1;
   16
        };
   17
  ☐ Custom Testcase
                          Use Example Testcases
                                                                                                                   Run
                                                                                                                              △ Submit
  Submission Result: Accepted (/submissions/detail/535023351/) @
                                                                                     More Details > (/submissions/detail/535023351/)
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```