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# 1525. Number of Good Ways to Split a String

Medium Topics Companies Hint

You are given a string `s`.

A split is called **good** if you can split `s` into two non-empty strings `sleft` and `sright` where their concatenation is equal to `s` (i.e., `sleft + sright = s`) and the number of distinct letters in `sleft` and `sright` is the same.

Return the number of **good splits** you can make in `s`.

**Example 1:**

**Input:** `s = "aacaba"`

**Output:** 2

**Explanation:** There are 5 ways to split `"aacaba"` and 2 of them are good.

`("a", "acaba")` Left string and right string contains 1 and 3 different letters respectively.

`("aa", "caba")` Left string and right string contains 1 and 3 different letters respectively.

`("aac", "aba")` Left string and right string contains 2 and 2 different letters respectively (good split).

`("aaca", "ba")` Left string and right string contains 2 and 2 different letters respectively (good split).

`("aacab", "a")` Left string and right string contains 3 and 1 different letters respectively.

**Example 2:**

**Input:** `s = "ababab"`

**Output:** 3

**Explanation:** There are 7 ways to split `"ababab"` and 3 of them are good.

`("a", "babab")` Left string and right string contains 1 and 3 different letters respectively.






`("ab", "abab")` Left string and right string contains 2 and 2 different letters respectively (good split).

`("aba", "bab")` Left string and right string contains 2 and 2 different letters respectively (good split).

`("abab", "ab")` Left string and right string contains 2 and 2 different letters respectively (good split).

`("ababa", "b")` Left string and right string contains 3 and 1 different letters respectively.


`("ababab", "")` Left string and right string contains 3 and 0 different letters respectively.

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Code

Python3 Auto

```
1 from collections import Counter
2
3 class Solution:
4     def numSplits(self, s: str) -> int:
5         left_count = Counter()
6         right_count = Counter(s)
7         counter = 0
8
9         for c in s:
10             left_count[c] += 1
11             right_count[c] -= 1
12
13             if right_count[c] == 0:
14                 del right_count[c]
15
16             if len(left_count) == len(right_count):
17                 counter += 1
```

Ln 1, Col 1 | Saved  Run Submit

☒ Testcase | >\_ Test Result

Case 1 Case 2 +

s =

"aacaba"

</> Source ?