Autocomplete

*i* Python3

{}

5 0 11

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## 696. Count Binary Substrings

Given a binary string s, return the number of non-empty substrings that have the same number of 0 's and 1 's, and all the 0 's and all the 1's in these substrings are grouped consecutively.

Substrings that occur multiple times are counted the number of times they occur.

## Example 1:

```
Input: s = "00110011"
```

Output: 6

Explanation: There are 6

substrings that have equal number of consecutive 1's and 0's: "0011", "01", "1100", "10",

"0011", and "01".

Notice that some of these substrings repeat and are counted the number of times they occur. Also, "00110011" is not a valid substring because all the 0's (and 1's) are not grouped together.

## Example 2:

**Input:** s = "10101"

Output: 4

**Explanation:** There are 4

substrings: "10", "01", "10", "01"

that have equal number of consecutive 1's and 0's.

## **Constraints:**

```
• 1 <= s.length <= 10<sup>5</sup>
```

s[i] is either '0' or '1'.

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```
class Solution:
 1 ▼
 2 ▼
          def countBinarySubstrings(self, s: str) -> int:
 3
              counter = 0
              i = 0
 4
              j = 0
 5
 6
 7 ▼
              while i < len(s):
                  while j < len(s) and s[i] == s[j]:
 8 ▼
 9
                      j += 1
10
                   k = j
11 ▼
                  while k < len(s) and s[j] == s[k]:
12
                       k += 1
13
                   counter += min(j - i, k - j)
14
15
16
17
              return counter
```

**NEW**