

1888. Minimum Number of Flips to Make the Binary String Alternating

Medium  Topics  Companies  Hint

You are given a binary string `s`. You are allowed to perform two types of operations on the string in any sequence:

- **Type-1: Remove** the character at the start of the string `s` and **append** it to the end of the string.
- **Type-2: Pick** any character in `s` and **flip** its value, i.e., if its value is `'0'` it becomes `'1'` and vice-versa.

Return the *minimum* number of **type-2** operations you need to perform such that `s` becomes **alternating**.

The string is called **alternating** if no two adjacent characters are equal.

- For example, the strings `"010"` and `"1010"` are alternating, while the string `"0100"` is not.

Example 1:

Input: `s = "111000"`
Output: `2`
Explanation: Use the first operation two times to make `s = "100011"`.
Then, use the second operation on the third and sixth elements to make `s = "101010"`.

Example 2:

Input: `s = "010"`
Output: `0`
Explanation: The string is already alternating.

Example 3:

Input: `s = "1110"`
Output: `1`
Explanation: Use the second operation on the second element to make `s = "1010"`.

Constraints:

- `1 <= s.length <= 105`
- `s[i]` is either `'0'` or `'1'`.

Seen this question in a real interview before? 1/4

☒ Yes ☐ No

Accepted **24.7K** Submissions **62.1K** Acceptance Rate **39.7%**

 Topics

 Companies

 Hint 1

 Hint 2

 Similar Questions

 Discussion (9)