

# Problem 1864: Minimum Number of Swaps to Make the Binary String Alternating

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 43.70%

**Paid Only:** No

**Tags:** String, Greedy

## Problem Description

Given a binary string `s`, return the **minimum** number of character swaps to make it **alternating**, or `-1` if it is impossible.

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.

Any two characters may be swapped, even if they are **not adjacent**.

**Example 1:**

**Input:** `s = "111000"` **Output:** `1` **Explanation:** Swap positions 1 and 4: `"1_1_10_0_0"` -> `"1_0_10_1_0"` The string is now alternating.

**Example 2:**

**Input:** `s = "010"` **Output:** `0` **Explanation:** The string is already alternating, no swaps are needed.

**Example 3:**

**Input:** `s = "1110"` **Output:** `-1`

**Constraints:**

\* `1 <= s.length <= 1000` \* `s[i]` is either `0` or `1`.

## Code Snippets

### C++:

```
class Solution {  
public:  
    int minSwaps(string s) {  
  
    }  
};
```

### Java:

```
class Solution {  
    public int minSwaps(String s) {  
  
    }  
}
```

### Python3:

```
class Solution:  
    def minSwaps(self, s: str) -> int:
```