Problem 3442: Maximum Difference Between Even and Odd Frequency I

Problem Information

Difficulty: Easy
Acceptance Rate: 60.82%
Paid Only: No
Tags: Hash Table, String, Counting

Problem Description

You are given a string `s` consisting of lowercase English letters.

Your task is to find the **maximum** difference `diff = freq(a1) - freq(a2)` between the frequency of characters `a1` and `a2` in the string such that:

* `a1` has an **odd frequency** in the string. * `a2` has an **even frequency** in the string.

Return this **maximum** difference.

Example 1:

Input: s = "aaaaabbc"

Output: 3

Explanation:

* The character `'a'` has an **odd frequency** of `5`, and `'b'` has an **even frequency** of `2`. * The maximum difference is `5 - 2 = 3`.

Example 2:

Input: s = "abcabcab"

Output: 1

Explanation:

* The character `'a'` has an **odd frequency** of `3`, and `'c'` has an **even frequency** of 2. * The maximum difference is `3 - 2 = 1`.

Constraints:

* `3 <= s.length <= 100` * `s` consists only of lowercase English letters. * `s` contains at least one character with an odd frequency and one with an even frequency.

Code Snippets

C++:

```
class Solution {
public:
int maxDifference(string s) {

}
};
```

Java:

```
class Solution {
public int maxDifference(String s) {

}
}
```

Python3:

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