


819. Most Common Word

Solved 

Easy

Topics

Companies

Given a string `paragraph` and a string array of the banned words `banned`, return *the most frequent word that is not banned*. It is **guaranteed** there is **at least one word** that is not banned, and that the answer is **unique**.

The words in `paragraph` are **case-insensitive** and the answer should be returned in **lowercase**.

Example 1:

Input: `paragraph = "Bob hit a ball, the hit BALL flew far after it was hit."`,
`banned = ["hit"]`

Output: `"ball"`

Explanation:

"hit" occurs 3 times, but it is a banned word.

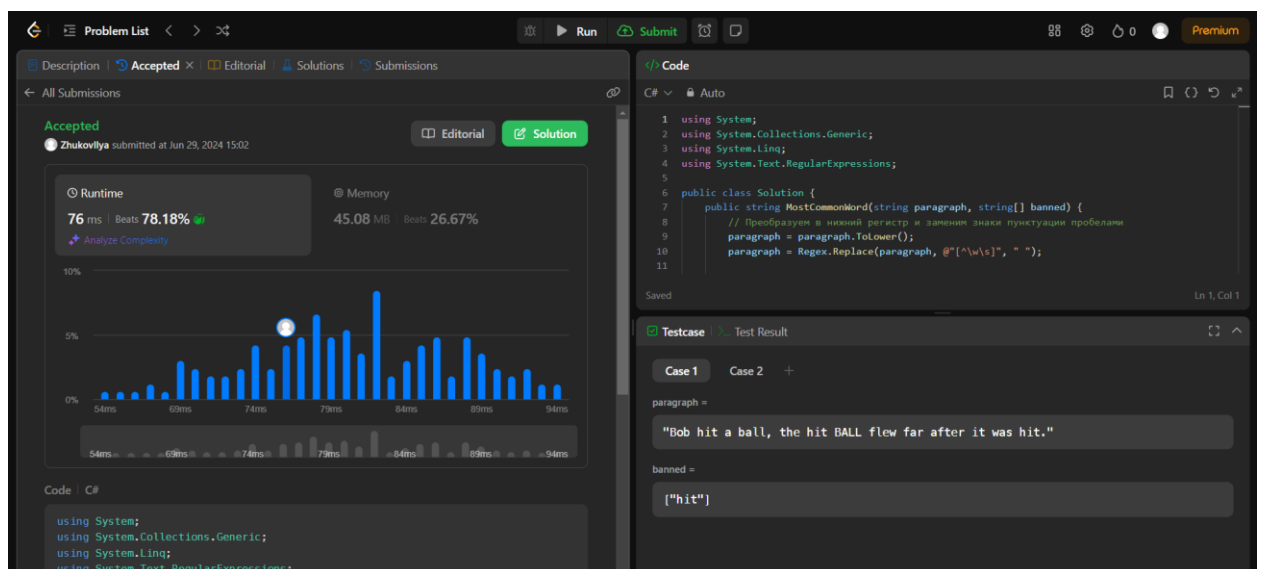
"ball" occurs twice (and no other word does), so it is the most frequent non-banned word in the paragraph.

Note that words in the paragraph are not case sensitive, that punctuation is ignored (even if adjacent to words, such as "ball,"), and that "hit" isn't the answer even though it occurs more because it is banned.

Example 2:

Input: `paragraph = "a."`, `banned = []`

Output: `"a"`



The screenshot shows a code editor with the following content:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text.RegularExpressions;

public class Solution {
    public string MostCommonWord(string paragraph, string[] banned) {
        // Преобразуем в нижний регистр и заменим знаки пунктуации пробелами
        paragraph = paragraph.ToLower();
        paragraph = Regex.Replace(paragraph, @"[\W\s]", " ");
    }
}
```

The test case input is:

```
paragraph = "Bob hit a ball, the hit BALL flew far after it was hit."
banned = ["hit"]
```

The output is:

```
"ball"
```

Код:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text.RegularExpressions;

public class Solution
{
    public string MostCommonWord(string paragraph, string[] banned)
```

```

{
    // Преобразуем в нижний регистр и заменим знаки пунктуации пробелами
    paragraph = paragraph.ToLower();
    paragraph = Regex.Replace(paragraph, @"^\w\s]", " ");

    // Разделяем слова по пробелам
    string[] words = paragraph.Split(new char[] { ' ' },
StringSplitOptions.RemoveEmptyEntries);

    // Создаем множество запрещенных слов для быстрого поиска
    HashSet<string> bannedSet = new HashSet<string>(banned);

    // Используем словарь для подсчета частоты слов
    Dictionary<string, int> wordCount = new Dictionary<string, int>();

    foreach (string word in words)
    {
        if (!bannedSet.Contains(word))
        {
            if (!wordCount.ContainsKey(word))
            {
                wordCount[word] = 0;
            }
            wordCount[word]++;
        }
    }

    // Находим слово с максимальной частотой
    string mostCommonWord = wordCount.Aggregate((l, r) => l.Value > r.Value ? l
: r).Key;

    return mostCommonWord;
}

```