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929. Unique Email Addresses

Solved

Easy | Topics | Companies

Every **valid email** consists of a **local name** and a **domain name**, separated by the `'@'` sign. Besides lowercase letters, the email may contain one or more `'.'` or `'+'`.

- For example, in `"alice@leetcode.com"`, `"alice"` is the **local name**, and `"leetcode.com"` is the **domain name**.

If you add periods `'.'` between some characters in the **local name** part of an email address, mail sent there will be forwarded to the same address without dots in the local name. Note that this rule **does not apply** to **domain names**.

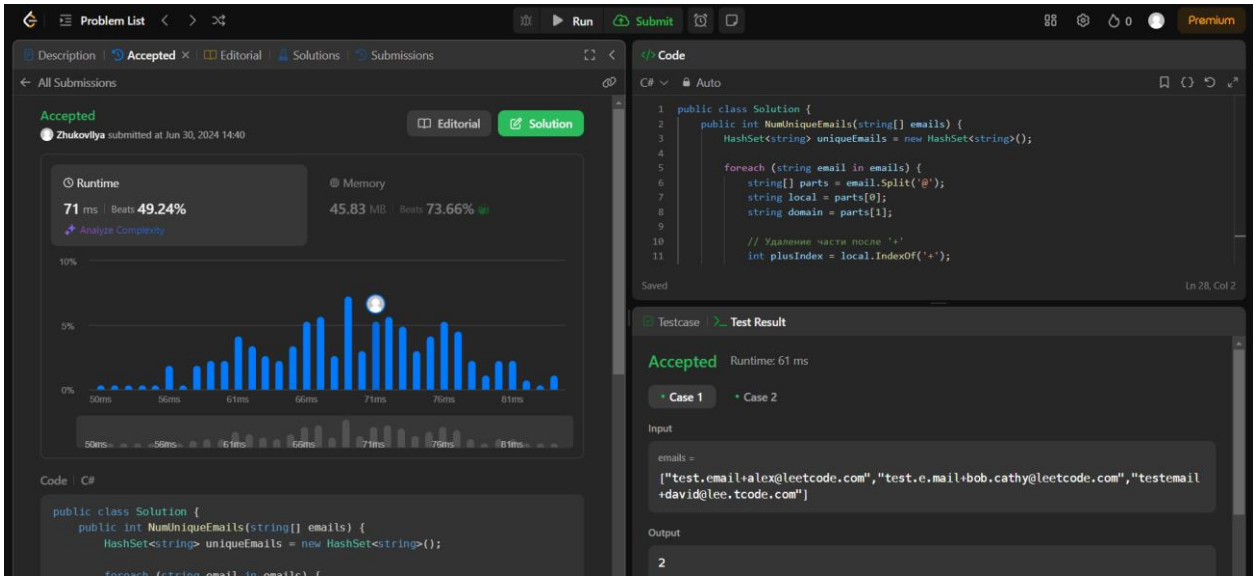
- For example, `"alice.z@leetcode.com"` and `"alicez@leetcode.com"` forward to the same email address.

If you add a plus `'+'` in the **local name**, everything after the first plus sign **will be ignored**. This allows certain emails to be filtered. Note that this rule **does not apply** to **domain names**.

- For example, `"m.y+name@email.com"` will be forwarded to `"my@email.com"`.

It is possible to use both of these rules at the same time.

Given an array of strings `emails` where we send one email to each `emails[i]`, return *the number of different addresses that actually receive mails.*



Код:

```
using System.Collections.Generic;

public class Solution
{
    public int NumUniqueEmails(string[] emails)
    {
        HashSet<string> uniqueEmails = new HashSet<string>();
```

```
        foreach (string email in emails)
        {
            string[] parts = email.Split('@');
            string local = parts[0];
            string domain = parts[1];

            // Удаление части после '+'
            int plusIndex = local.IndexOf('+');
            if (plusIndex != -1)
            {
                local = local.Substring(0, plusIndex);
            }

            // Удаление всех точек
            local = local.Replace(".", "");

            // Создание нормализованного адреса электронной почты
            string normalizedEmail = local + "@" + domain;

            // Добавление нормализованного адреса в хэш-таблицу
            uniqueEmails.Add(normalizedEmail);
        }

        return uniqueEmails.Count;
    }
}
```