

# Problem 389: Find the Difference

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 59.91%

**Paid Only:** No

**Tags:** Hash Table, String, Bit Manipulation, Sorting

## Problem Description

You are given two strings `s`` and `t``.

String `t`` is generated by random shuffling string `s`` and then add one more letter at a random position.

Return the letter that was added to `t``.

**Example 1:**

**Input:** `s = "abcd", t = "abcde"` **Output:** `"e"` **Explanation:** `'e'` is the letter that was added.

**Example 2:**

**Input:** `s = "", t = "y"` **Output:** `"y"`

**Constraints:**

`0 <= s.length <= 1000` `t.length == s.length + 1` `s`` and `t`` consist of lowercase English letters.

## Code Snippets

**C++:**

```
class Solution {  
public:  
    char findTheDifference(string s, string t) {  
  
    }  
};
```

### Java:

```
class Solution {  
    public char findTheDifference(String s, String t) {  
  
    }  
}
```

### Python3:

```
class Solution:  
    def findTheDifference(self, s: str, t: str) -> str:
```