

Problem 1773: Count Items Matching a Rule

Problem Information

Difficulty: Easy

Acceptance Rate: 85.15%

Paid Only: No

Tags: Array, String

Problem Description

You are given an array `items`, where each `items[i] = [typei, colori, namei]` describes the type, color, and name of the `i`th item. You are also given a rule represented by two strings, `ruleKey` and `ruleValue`.

The `i`th item is said to match the rule if **one** of the following is true:

- * `ruleKey == "type"` and `ruleValue == typei`.
- * `ruleKey == "color"` and `ruleValue == colori`.
- * `ruleKey == "name"` and `ruleValue == namei`.

Return the number of items that match the given rule.

Example 1:

Input: `items =`
[[`"phone"`, `"blue"`, `"pixel"`], [`"computer"`, `"silver"`, `"lenovo"`], [`"phone"`, `"gold"`, `"iphone"`]], `ruleKey =`
`"color"`, `ruleValue = "silver"` **Output:** 1 **Explanation:** There is only one item matching the given rule, which is [`"computer"`, `"silver"`, `"lenovo"`].

Example 2:

Input: `items =`
[[`"phone"`, `"blue"`, `"pixel"`], [`"computer"`, `"silver"`, `"phone"`], [`"phone"`, `"gold"`, `"iphone"`]], `ruleKey =`
`"type"`, `ruleValue = "phone"` **Output:** 2 **Explanation:** There are only two items matching the given rule, which are [`"phone"`, `"blue"`, `"pixel"`] and [`"phone"`, `"gold"`, `"iphone"`]. Note that the item [`"computer"`, `"silver"`, `"phone"`] does not match.

****Constraints:****

* `1` <= items.length <= 104` * `1` <= typei.length, colori.length, namei.length, ruleValue.length <= 10` * `ruleKey` is equal to either `"type"`, `"color"`, or `"name"`. * All strings consist only of lowercase letters.

Code Snippets

C++:

```
class Solution {
public:
    int countMatches(vector<vector<string>>& items, string ruleKey, string
ruleValue) {

    }
};
```

Java:

```
class Solution {
    public int countMatches(List<List<String>> items, String ruleKey, String
ruleValue) {

    }
}
```

Python3:

```
class Solution:
    def countMatches(self, items: List[List[str]], ruleKey: str, ruleValue: str)
-> int:
```