

771 Jewels and Stones

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You're given strings *J* representing the types of stones that are jewels, and *S* representing the stones you have. Each character in *S* is a type of stone you have. You want to know how many of the stones you have are also jewels.

The letters in *J* are guaranteed distinct, and all characters in *J* and *S* are letters. Letters are case sensitive, so "a" is considered a different type of stone from "A".

Example 1:

Input: *J* = "aA", *S* = "aAAbbbb"

Output: 3

Example 2:

Input: *J* = "z", *S* = "ZZ"

Output: 0

Note:

- *S* and *J* will consist of letters and have length at most 50.
- The characters in *J* are distinct.

来自 <<https://leetcode.com/problems/jewels-and-stones/description/>>

给定字符串 *J* 代表石头中宝石的类型，和字符串 *S* 代表你拥有的石头。 *S* 中每个字符代表了一种你拥有的石头的类型，你想知道你拥有的石头中有多少是宝石。

J 中的字母不重复，*J* 和 *S* 中的所有字符都是字母。字母区分大小写，因此 "a" 和 "A" 是不同类型的石头。

示例 1:

输入: *J* = "aA", *S* = "aAAbbbb"

输出: 3

示例 2:

输入: *J* = "z", *S* = "ZZ"

输出: 0

注意:

- *S* 和 *J* 最多含有50个字母。
- *J* 中的字符不重复。

Solution for Python3:

```

1  class Solution1:
2      def numJewelsInStones(self, J, S):
3          """
4              :type J: str
5              :type S: str
6              :rtype: int
7          """
8          ans = 0
9          for s in S:
10             if s in J:
11                 ans += 1
12         return ans
13
14 class Solution2:
15     def numJewelsInStones(self, J, S):
16         """
17             :type J: str
18             :type S: str
19             :rtype: int
20         """
21         return sum(map(J.count, S))
22         # return sum(map(S.count, J))
23         # return sum(s in J for s in S)

```

Solution for C++:

```

1  class Solution {
2  public:
3      int numJewelsInStones(string J, string
4  S) {
5          int ans = 0;
6          for (char s : S) {
7              if (J.find(s) != string::npos)
8                  ans++;
9          }

```

```
10         return ans;  
11     }  
};
```