

## Strings: Making Anagrams ★

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A student is taking a cryptography class and has found anagrams to be very useful. Two strings are anagrams of each other if the first string's letters can be rearranged to form the second string. In other words, both strings must contain the same exact letters in the same exact frequency. For example, `bacdc` and `dcbac` are anagrams, but `bacdc` and `dcbad` are not.

The student decides on an encryption scheme that involves two large strings. The encryption is dependent on the minimum number of character deletions required to make the two strings anagrams. Determine this number.

Given two strings, ***a*** and ***b***, that may or may not be of the same length, determine the minimum number of character deletions required to make ***a*** and ***b*** anagrams. Any characters can be deleted from either of the strings.

### Example

***a*** = `'cde'`

***b*** = `'dcf'`

Delete ***e*** from ***a*** and ***f*** from ***b*** so that the remaining strings are ***cd*** and ***dc*** which are anagrams. This takes **2** character deletions.

### Function Description

Complete the `makeAnagram` function in the editor below.

`makeAnagram` has the following parameter(s):

- string *a*: a string
- string *b*: another string

### Returns

- int: the minimum total characters that must be deleted

### Input Format

The first line contains a single string, ***a***.

The second line contains a single string, ***b***.

### Constraints

- $1 \leq |a|, |b| \leq 10^4$
- The strings ***a*** and ***b*** consist of lowercase English alphabetic letters, `ascii[a-z]`.

### Sample Input

```
cde
abc
```

### Sample Output

```
4
```

### Explanation

Delete the following characters from the strings make them anagrams:

- Remove `d` and `e` from `cde` to get `c`.
- Remove `a` and `b` from `abc` to get `c`.

It takes **4** deletions to make both strings anagrams.

```
25 }
26
27 // Complete the makeAnagram function below.
28 function makeAnagram(a, b) {
29     let counter = {};
30     let total = 0;
31     Array.from(a).forEach(char => {
32         counter[char] = counter[char] || 0;
33         counter[char]++;
34     })
35     Array.from(b).forEach(char => {
36         counter[char] = counter[char] || 0;
37         counter[char]--;
38     })
39     Object.keys(counter).forEach(k => {
40         if (counter[k] !== 0) {
41             total += Math.abs(counter[k]);
42         }
43     })
44     return total;
45 }
46
47 function main() {
48     const ws = fs.createWriteStream(process.env.OUTPUT_PATH);
```

Line: 44 Col: 18

 Upload Code as File    ☐ Test against custom input

Run Code

Submit Code

# Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

✔ Sample Test case 0

✔ Sample Test case 1

✔ Sample Test case 2

Input (stdin)

1    **cde**

2    **abc**

Your Output (stdout)

1    **4**

Expected Output

1    **4**

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