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Sherlock and the Valid String

locked



by darkshadows

Problem

Submissions

Leaderboard

Sherlock considers a string, s , to be *valid* if either of the following conditions are satisfied:

1. All characters in s have the same exact frequency (i.e., occur the same number of times). For example, $s = \text{"aabbcc"}$ is valid, but $s = \text{"baacdd"}$ is not valid.
2. Deleting exactly **1** character from s will result in all its characters having the same frequency. For example, $s = \text{"aabbccc"}$ and $s = \text{"aabbc"}$ are valid because all their letters will have the same frequency if we remove **1** occurrence of **c**, but $s = \text{"abcccc"}$ is not valid because we'd need to remove **3** characters.

Given s , can you determine if it's valid or not? If it's valid, print **YES** on a new line; otherwise, print **NO** instead.

Input Format

A single string denoting s .

Constraints

- $1 \leq |s| \leq 10^5$
- String s consists of lowercase letters only (i.e., [a-z]).

Output Format

Print **YES** if string s is valid; otherwise, print **NO** instead.

Sample Input 0

```
aabbcd
```

Sample Output 0

```
NO
```

Explanation 0

We would need to remove two characters from $s = \text{"aabbcd"}$ to make it valid, because **a** and **b** both have a frequency of **2** and **c** and **d** both have a frequency of **1**. This means s is *invalid* because we'd need to remove more than **1** character to make all its letters have the same frequency, so we print **NO** as our answer.

[f](#) [t](#) [in](#)

Submissions: 12

Max Score: 100

Difficulty: Medium

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Python 3



```
1  #!/bin/python3
2
3  import sys
4
5  def isValid(s):
6      # Complete this function
7
8  s = input().strip()
9  result = isValid(s)
10 print(result)
11
```

Line: 1 Col: 1

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