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Sherlock and Valid String

 by darkshadows

Problem

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Problem Statement

You know my powers, my dear Watson, and yet at the end of three months I was forced to confess that I had at last met an antagonist who was my intellectual equal.

A "valid" string is a string S such that for all distinct characters in S each such character occurs the same number of times in S .

For example, **aabb** is a valid string because the frequency of both characters **a** and **b** is **2**, whereas **aabbc** is not a valid string because the frequency of characters **a**, **b**, and **c** is not the same.

Watson gives a string S to Sherlock and asks him to remove some characters from the string such that the new string is a "valid" string.

Sherlock wants to know from you if it's possible to be done with less than or equal to one removal.

Input Format

The first and only line contains S , the string Watson gives to Sherlock.

Output Format

Output **YES** if string S can be converted to a "valid" string by removing less than or equal to one character. Else, output **NO**.

Constraints:

$1 \leq \text{size of string } S \leq 10^5$

String S contains lowercase letters (**a-z**) only.

Sample Input

```
aabbcd
```

Sample Output

```
NO
```

Explanation

2 is the minimum number of removals required to make it a valid string. It can be done in following two ways:

Remove **c** and **d** to get **aabb**.

Or remove **a** and **b** to get **abcd**.



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Submissions: 1786

Max Score: 100

Difficulty: Difficult

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Java 8   

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named
8         Solution. */
9     }
10 }
```

Line: 1 Col: 1

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