Sherlock and Valid String

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 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

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:

$1 \le \textrm{size of string}\hspace{2mm} S \le 10^5$
String S contains small alphabets(`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`.