

Sherlock and Valid String

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.

Constraints

- $1 \leq |S| \leq 10^5$
- String S contains lowercase letters only ($a - z$).

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**.

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`.