

# 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`.