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 b, whereas b is not a valid string because the frequency of characters a, b, and b is b, and b is b, whereas b

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.