

Sherlock and Valid String



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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:

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

Submissions: 3817 Max Score: 100 Difficulty: Difficult

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