007's Play

Le Chiffre has challenged James Bond to game where he is showing him a random sequence of characters. He tells him to answer YES if the characters in the sequence appear the same number of times or if he can remove just 1 character at 1 index in the sequence, and the remaining characters will occur the same number of times. Otherwise, he has to answer NO.

For example, if he is shown a sequence S=jkl, Bond has to answer with a YES (as j=1,k=1,l=1). If he is shown the sequence S = jkll, he again has to answer with a YES, as after removing one l, each character appears the same number of times. However, if Le Chiffre shows him a sequence S = jklll, he has to answer with a NO(as even if we remove one l, the frequency of all the characters is not the same).

Input Format

A single string S.

Constraints

$$1 \leq |S| \leq 10^5$$
$$Each\ Character\ S[i] \in ascii[a-z]$$

Output Format

Print YES or NO depending on the sequence.

Sample Input 0

aaaabbcc

Sample Output 0

NO

Expected Solution : (CPP)

```
#include <bits/stdc++.h>

using namespace std;

string isValid(string s) {

    int count[26] = {0};

    for(int i=0;i<s.length();i++) {
        count[s[i]-'a']++;
    }
    int first = -1;
    int first_count = 0;
    int second = -1;
    int second_count = 0;
```

```
    for(int i=0;i<26;i++) {
        if(count[i]!=0) {
            if(first==-1||first==count[i]) {
                first = count[i];
                first_count++;
            } else if(second==-1||second==count[i]) {
                second = count[i];
                second_count++;
            } else {
                return "NO";
            }
        }
    }
    if(second==-1) {
        return "YES";
    } else if(first>second) {
        if(first_count==1&&first-second==1) {
            return "YES";
        } else if(second_count==1) {
            return "YES";
        } else {
            return "NO";
        }
    } else {
        if(second_count==1&&second-first==1) {
            return "YES";
        } else if(first_count==1) {
            return "YES";
        } else {
            return "NO";
        }
    }
}
int main()
{
    string s;
    getline(cin, s);
    string result = isValid(s);
    cout << result << "\n";
    return 0;
}
```