Sherlock considers a string to be valid if all characters of the string appear the same number of times. It is also valid if he can remove just 1 character at 1 index in the string, and the remaining characters will occur the same number of times. Given a string s, determine if it is valid. If so, return YES, otherwise return NO.

Example

$s = abc$

This is a valid string because frequencies are $\{a:1, b:1, c:1\}$.

$s = abcc$

This is a valid string because we can remove one c and have 1 of each character in the remaining string.

$s = abccc$

This string is not valid as we can only remove 1 occurrence of c. That leaves character frequencies of $\{a:1, b:1, c:2\}$.

Function Description

Complete the isValid function in the editor below.

isValid has the following parameter(s):

- string s: a string

Returns

- string: either YES or NO

Input Format

A single string s.

Constraints

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

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.

```python
# Complete the 'isValid' function below.
#
# The function is expected to return a STRING.
# The function accepts STRING s as parameter.
#

def isValid(s):
    (fre_map, fre_map2) = ({}, {})

    for char in s: fre_map[char] = fre_map.get(char, 0) + 1
    for value in fre_map.values(): fre_map2[value] = fre_map2.get(value, 0) + 1

    size = len(fre_map2.values())

    if size == 1: return 'YES'

    if size == 2:
        tuples = [(key, value) for (key, value) in fre_map2.items()]
        tuples.sort(reverse=True, key=lambda x: x[1])

        if tuples[1][1] == 1 and tuples[1][0] == 1: return 'YES'
        if tuples[1][1] == 1 and abs(tuples[1][0] - tuples[0][0]) == 1: return 'YES'

    return 'NO'


# Kunal Wadhwa
```

Line: 10 Col: 1

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Next Challenge

Test case 13
Test case 14
Test case 15
Test case 16
Test case 17
Test case 18

Compiler Message

```
Success
```

Input (stdin) Download

```
aabbcd
```

Expected Output Download

```
NO
```