

Dothraki are planning an attack to usurp King Robert's throne. King Robert learns of this conspiracy from Raven and plans to lock the single door through which the enemy can enter his kingdom.



But, to lock the door he needs a key that is an **anagram** of a **palindrome**. He starts to go through his box of strings, checking to see if they can be rearranged into a palindrome. Given a string, determine if it can be rearranged into a palindrome. Return the string **YES** or **NO**.

Example

$s = \text{'aabbccdd'}$

One way this can be arranged into a palindrome is *abcd dcba*. Return **YES**.

Function Description

Complete the *gameOfThrones* function below.

gameOfThrones has the following parameter(s):

- *string s*: a string to analyze

Returns

- *string*: either **YES** or **NO**

Input Format

A single line which contains s .

Constraints

- $1 \leq |s| \leq 10^5$
- s contains only lowercase letters in the range *ascii*[$a \dots z$]

Sample Input 0

```
aaabbbb
```

Sample Output 0

```
YES
```

Explanation 0

A palindromic permutation of the given string is *bbaaabb*.

Sample Input 1

```
cdefghmnopqrstuvw
```

Sample Output 1

```
NO
```

Explanation 1

Palindromes longer than 1 character are made up of *pairs* of characters. There are none here.

Sample Input 2

```
cdcdcdceeeef
```

Sample Output 2

```
YES
```

Explanation 2

An example palindrome from the string: *ddcceefeecdd*.