

Palindromic permutation

Write a function which checks whether a given string can be rearranged into a palindrome. If it is possible, return "YES", otherwise return "NO".

The function has only one parameter `s`: string

Input Format

A single line which contains `s`, the input string.

Constraints

$$1 \leq |s| \leq 10^5$$

`|s|` contains only lowercase letters in the range `ascii[a...z]`

Output Format

A single line which contains "YES" or "NO".

Example input	Expected output	Explanation
aaabbbb	YES	A palindromic permutation of the given string is bbbaabb
cdefghmnopqrstuvw	NO	Palindromes longer than 1 character are made up of pairs of characters. There are none here.
cdcdcdcdeeeef	YES	An example palindrome from the string: ddcceefeecdd