PROBLEMS   SUBMIT CODE   MY SUBMISSIONS   STATUS   STANDINGS   CUSTOM INVOCATION

B. Hammouri and String

time limit per test: 0.5 seconds

memory limit per test: 64 megabytes

input: standard input

output: standard output

A string is beautiful if there is no common letter (at the same index) between the string and its reverse. For example, the string $abac$ is beautiful since $abac$ and $caba$ have no indices with common letters, while $abbaa$ is not beautiful.

Given a string that consists of lowercase Latin letters, determine if it is possible to reorder the letters to make a beautiful string.

Input

The input contains a non-empty string of lowercase Latin letters, the length of the string doesn't exceed 100000 letters.

Output

Print "YES" if it is possible to reorder the letters to get a beautiful string, otherwise print "NO".

Examples

input	Copy
abac	

output	Copy
YES	

input	Copy
abbaa	

output	Copy
NO	

input	Copy
bbaabb	

output	Copy
NO	

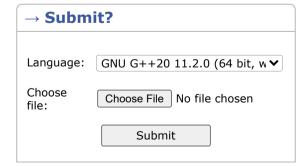| input	Copy
z	

output	Copy
NO	

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

[Start virtual contest]

→ Submit?

Language: GNU G++20 11.2.0 (64 bit, w ▾)

Choose file: [Choose File] No file chosen

[Submit]

→ Last submissions

Submission	Time	Verdict
216128800	Jul/28/2023 20:56	Accepted
216128244	Jul/28/2023 20:51	Accepted
216123963	Jul/28/2023 20:14	Accepted