



Утегенов Батырхан Елембетұлы [ADS-Lab-01]: Submit a solution

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Submit a solution for D-151435. Balanced sequence of letters

Time limit: 1 s

Real time limit: 5 s

Memory limit: 256M

Problem D: 151435. Balanced sequence of letters

You are given a string S containing lowercase Latin letters $[a - z]$. Determine if string is *balanced*.

Here is description of balanced strings:

- empty string is balanced
- if strings s and t are balanced, then string st (concatenation) is also balanced
- if string s is balanced, then string xsx is balanced for any lowercase Latin letter x .

For example, string $abba$ is balanced, but string $abbb$ is not.

Input format

The input line contains single string S ($1 \leq S.length() \leq 10^5$).

Output format

Print "YES" if string is balanced, otherwise print "NO"

Examples

Input

sbaabsss

Output

YES

Input

sbabasss

Output

NO

Input

baab

Output

YES

Input

abpa

Output

NO

Submit a solution

Language:

g++ - GNU C++ 11.4.0

File

Выберите файл

 Файл не выбран

Send!

Send!

Previous submissions of this problem

Run ID	Time	Size	Problem	Language	Result	Failed test	View source	View report
2874	259:43:32	501	D	g++	OK	N/A	View	View

- A
- B
- C
- D
- E
- F
- G
- H
- I
- J