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C. Balanced brackets

time limit per test: 2 seconds memory limit per test: 64 megabytes input: standard input output: standard output

A sequence of brackets is called balanced if one can turn it into a valid math expression by adding characters *+» and *1». For example, sequences * (()) () », * () » and * (() (())) » are balanced, while * () , * (() » and * (()) () are not.

You are given a string which consists of opening and closing round brackets. Check whether it is a balanced bracket sequence.

Input

The only line of input contains a string between 1 and 100 characters long, inclusive. Each character in the string will be « (» or «) ».

Output

Output "YES" if the bracket sequence is balanced, and "NO" otherwise (quotes for clarity only).

Examples

input	Сору
(()(()))()	
output	Сору
YES	
input	Сору
())()	
output	Сору
NO	

→ Attention

The package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, a solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then the value 800 ms will be displayed and used to determine the verdict.

GEMA Bixos 2022 Private Participant



Practice

ightarrow Virtual participation

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Start virtual contest

→ Submit?



29/07/2022 12:45



→ Last submissions		
Submission	Time	Verdict
166011467	Jul/28/2022 16:32	Accepted
166004613	Jul/28/2022 15:33	Wrong answer on test 1
<u>165999406</u>	Jul/28/2022 14:46	Accepted
165999012	Jul/28/2022 14:42	Wrong answer on test 3

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