



Hello, 2024101067.

Valid Bracket Sequences - Part1

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Please Note: This problem has **Part 1** and **Part 2**. **Part 1** requires you to only output YES or NO. **Part 2** requires you to also provide the index of the corresponding opening bracket

Problem Statement

DSA TA's were bored of making lab questions and stuck back to valid bracket sequences.

Given a string, determine if the string forms a valid bracket sequence or not.

Input Format

- The first line contains a single integer **n**, the length of the string.
- The second line contains the string.
- It is guaranteed that all characters part of the string belong to the set `{, }, (,), [,]`.

Output Format

- Print the answer in a single line in block letters (YES or NO).

Constraints

- $1 \leq n \leq 2 * 10^5$

Example

Input

Hello, **2024101067**.`[]{}()`

Output

YES

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? Clarifications

[Request clarification](#)

No clarifications have been made at this time.