

# Bracket Check

Given a string  $s$  containing just the characters '(', ')', '{', '}', '[', ']', '<', and '>', determine if the input string is valid.

An input string is valid if:

1. Open brackets must be closed by the same type of brackets.
2. Open brackets must be closed in the correct order.
3. Every close bracket has a corresponding open bracket of the same type.

## Input

A single line of string  $s$  ( $1 \leq |s| \leq 100.000$ ).

## Output

Output "Yes" if the string  $s$  is a valid parentheses, otherwise output "No".

## Example 1

**Input:**

([]{})

**Output:**

Yes

## Example 2

**Input:**

([<]{>})

**Output:**

No