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# Keylogger

Input file:            **standard input**  
Output file:          **standard output**  
Time limit:           1 second  
Memory limit:        256 megabytes

As a malicious hacker you are trying to steal your mother's password, and therefore you have installed a keylogger on her PC (or Mac, so you like). You have a log from your mother typing the password, but unfortunately the password is not directly visible because she used the left and right arrows to change the position of the cursor, and the backspace to delete some characters. Write a program that can decode the password from the given keylog.

## Input

One line with a string  $L$  ( $1 \leq |L| \leq 10^6$ ), consisting of:

- `'-'` representing backspace: the character directly before the cursor position is deleted, if there is any.
- `'<'` (or `'>'`) representing the left (or right) arrow: the cursor is moved 1 character to the left (right), if possible.
- alphanumeric characters, which are part of the password, unless deleted later. We assume 'insert mode': if the cursor is not at the end of the line, and you type an alphanumeric character, then all characters after the cursor move one position to the right.

It is guaranteed that decoded password will be of length  $> 0$ .

## Output

The output should contain a single string, on a single line: the decoded password.

## Examples

standard input	standard output
«AT<S»Ud-	ASTU
a0V1a2L3i4D5i6N7p8U9t	a0V1a2L3i4D5i6N7p8U9t