



New Keyboard

Problem

Submissions

Leaderboard

Discussions

You have bought a new strange keyboard. When you press the **Numeric Lock** key, you cannot use any number. And sometimes the **Home** key, **End** key or **Backspace** key gets accidentally pressed.

You had to send an email to your supervisor. Since you were in hurry, you didn't even notice that the text was messed up. After you sent the email, you knew that you need some help.

Given the text you wrote, print the text your supervisor will receive.

Note: The **Home** key changes the writing cursor's position to the beginning of the line, which means whatever after '<' goes before what is already written.

The **End** key changes the writing cursor's position to the end of the line, which means whatever after '>' goes after what is already written.

The **Backspace** key removes the previous character to the current position. And if there is nothing written, nothing happens.

The **Numeric Lock** key enables the numbers on the keyboard if they were disabled previously, and vice-versa. Initially, the **Numeric Lock** is on, that is you can use the numbers.

Input Format

The only line of input consists of a string S , denotes the text contained in the email.

Constraints

- $1 \leq |S| \leq 10^6$
- String contains Latin letters, underscores, digits, and four special characters:
 - **Home** key represented by '<'
 - **End** key represented by '>'
 - **Backspace** key represented by '*'
 - **Numeric Lock** key represented by '#'

Output Format

Print the text which your supervisor will receive.

Sample Input 0

```
HE*<LL>0
```

Sample Output 0

```
LLH0
```

Explanation 0

The first two letters will be written normally. So, the output is **HE** so far.

The third character indicates that **Backspace** key was pressed. Then, it deletes letter E. So, the output is **H** so far.

The fourth character indicates that **Home** key was pressed. Then, the typing cursor moves to the start of the text.

The next two letters will be written at the start, since the previous character was the **Home** key. So, the output is **LLH** so far.

The seventh character indicates that **End** key was pressed. Then, the typing cursor moves to the end of the text.

The next letter will be written at the end, since the previous character was the **End** key. So, the output is **LLHO**.

[f](#) [t](#) [in](#)Contest ends in **19 hours**Submissions: **2020**

Max Score: 10

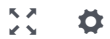
Difficulty: Easy

Rate This Challenge:

☆☆☆☆☆

[More](#)Current Buffer (saved locally, editable)  

Java 8



```
1 import java.io.*;
2 import java.math.*;
3 import java.security.*;
4 import java.text.*;
5 import java.util.*;
6 import java.util.concurrent.*;
7 import java.util.function.*;
8 import java.util.regex.*;
9 import java.util.stream.*;
10 import static java.util.stream.Collectors.joining;
11 import static java.util.stream.Collectors.toList;
12
13 class Result {
14
15     /*
16      * Complete the 'receivedText' function below.
17      *
18      * The function is expected to return a STRING.
19      * The function accepts STRING S as parameter.
20      */
21
22     public static String receivedText(String S) {
23         // WRITE DOWN YOUR CODE HERE
24     }
25 }
26
27 }
28
29 public class Solution {
30     public static void main(String[] args) throws IOException {
31         BufferedReader bufferedReader = new BufferedReader(new InputStreamReader(System.in));
32         BufferedWriter bufferedWriter = new BufferedWriter(new
33             FileWriter(System.getenv("OUTPUT_PATH")));
34
35         String S = bufferedReader.readLine();
36
37         String result = Result.receivedText(S);
38
39         bufferedWriter.write(result);
40         bufferedWriter.newLine();
41
42         bufferedReader.close();
43         bufferedWriter.close();
44     }
45 }
```

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