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Hello, **2024101067**.

Key Fixes

Submit solution

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✔ **Points:** 100 (partial)
🕐 **Time limit:** 1.0s
🗄 **Memory limit:** 256M

❯ **Problem type**
❯ **Allowed languages**
  C, C++

You're typing a long text with a broken keyboard. Well it's not so badly broken. The only problem with the keyboard is that sometimes the *home* key or the *end* key gets automatically pressed (internally).

Home key moves the cursor to the start of the text you are typing, and *End* key moves the cursor to the end of the text you are typing.

You're not aware of this issue, since you're focusing on the text and did not even turn on the monitor! After you finished typing, you can see a text on the screen (if you turn on the monitor).

Your task is to find the final text on the screen.

Constraints

- $1 \le T \le 10$
- $1 \le |s[i]| \le 100,000$

Subtasks

Subtask 1 (10 Marks): $T = 1, 1 \le |s[i]| \le 100$

Subtask 2 (15 Marks): $T = 1, 1 \le |s[i]| \le 1000$

Subtask 3 (10 Marks): $T = 10, 1 \le |s[i]| \le 1000$

Subtask 4 (65 Marks): Original Constraints

Input format

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denotes the *End* key is pressed internally.

Output format

For each input string output the final string seen on the screen, on a new line.

Example

Sample Testcase 1

Input

Copy

```
4
Thisisa(Beiju)text
(())()()HappyBirthdaytoIIIT
ajdbac(abaxc(hjbwe)akbck)cb
)adkjb(cjkbakac)akbc
```

Output

Copy

```
BeijuThisisatext
HappyBirthdaytoIIIT
hjbweabaxcajdbacakbckcb
cjkbakacadkjbakbc
```

Explanation

For the first string, you type in `Thisisa`, then *Home* is hit. On screen, you have the string `Thisisa`. But because you hit *Home*, cursor moved to the beginning of the string. That is, the cursor is at the position before the character `T` in the text `Thisisa`. Then you type `Beiju`. Now the string on screen becomes `BeijuThisisa`. After that, *End* is hit. This moves the cursor to the end of the string on screen. Finally, you type `text`. Thus, you get `BeijuThisisatext` on screen.

For the second string, *Home* and *End* are hit when nothing is typed. Thus, it has no effect. So finally you type `HappyBirthdaytoIIIT`, and the same string appears on the screen.

❓ Clarifications

Report an issue

No clarifications have been made at this time.