

Problem 1 - Password Reset

Problem for exam preparation for the [Programming Fundamentals Course @SoftUni](#).

Submit your solutions in the SoftUni judge system at <https://judge.softuni.org/Contests/Practice/Index/2303#0>.

Yet again, you have forgotten your password. Naturally, it's not the first time this has happened. Actually, you got so tired of it that you decided to help yourself with an intelligent solution.

Write a password reset program that performs a series of commands upon a predefined string. First, you will receive a string, and afterward, until the command **"Done"** is given, you will be receiving strings with commands split by a single space. The commands will be the following:

- **"TakeOdd"**
 - Takes only the characters at **odd indices** and **concatenates** them to obtain the **new raw password** and then **prints** it.
- **"Cut {index} {length}"**
 - Gets the substring with the **given length** starting from the **given index** from the password and removes its **first occurrence**, then **prints** the password on the console.
 - The given index and the length will **always** be **valid**.
- **"Substitute {substring} {substitute}"**
 - If the raw password contains the given substring, replaces all of its occurrences with the substitute text given and prints the result.
 - If it doesn't, prints **"Nothing to replace!"**.

Input

- You will be receiving strings until the **"Done"** command is given.

Output

- After the **"Done"** command is received, print:
 - **"Your password is: {password}"**

Constraints

- The indexes from the **"Cut {index} {length}"** command will always be valid.

Examples

Input	Output
Siiceercaroetavm!?:ahsott.:i:nstupmomceqr	icecream::hot::summer
TakeOdd	icecream::hot::mer
Cut 15 3	icecream-hot-mer
Substitute :: -	Nothing to replace!
Substitute ^	Your password is: icecream-hot-mer
Done	

Comments	
<p>TakeOdd -> We only take the chars at odd indices 1, 3, 5 etc.</p> <p>Siiceercaroetavm!?:ahsott.:i:instupmomceqr -> icecream::hot::summer</p> <p>Cut 15 3 -> We cut a substring starting at index 15 with length 3, then remove it from the raw password:</p> <p>icecream::hot::summer -> sum</p> <p>Substitute :: - -> We replace "::" with "-":</p> <p>icecream::hot::summer -> icecream-hot-summer</p> <p>Substitute ^ -> " " is not found anywhere in the raw password, so we print "Nothing to replace!"</p> <p>Finally, after receiving the "Done" command, we print the resulting password in the proper format.</p>	
Input	Output
up8rgoyg3r1atmlmpunagt!-irs7!1fgulnnnqy	programming!is!funny
TakeOdd	programming!is!fun
Cut 18 2	programming***is***fun
Substitute ! ***	Nothing to replace!
Substitute ? !.	Your password is: programming***is***fun
Done	

JS Examples

Input	Output
(["Siiceercaroetavm!?:ahsott.:i:instupmomceqr", "TakeOdd", "Cut 15 3", "Substitute :: -", "Substitute ^", "Done"])	icecream::hot::summer icecream::hot::mer icecream-hot-mer Nothing to replace! Your password is: icecream-hot-mer
Comments	
<p>TakeOdd -> We only take the chars at odd indices 1, 3, 5 etc.</p> <p>Siiceercaroetavm!?:ahsott.:i:instupmomceqr -> icecream::hot::summer</p> <p>Cut 15 3 -> We cut a substring starting at index 15 with length 3, then remove it from the raw password:</p> <p>icecream::hot::summer -> sum</p>	

Substitute :: - -> We replace ":" with "-":

icecream:hot:summer -> icecream-hot-summer

Substitute | ^ -> "|" is not found anywhere in the raw password, so we print **"Nothing to replace!"**

Finally, after receiving the **"Done"** command, we print the resulting password in the proper format.

Input	Output
(["up8rgoyg3r1atmlmpiunagt!-irs7!1fgulnnnqy", "TakeOdd", "Cut 18 2", "Substitute ! ***", "Substitute ? .!.", "Done"])	programming!is!funny programming!is!fun programming***is***fun Nothing to replace! Your password is: programming***is***fun