## Problem 1 - Password Reset

Problem for exam preparation for the [Programming Fundamentals Course @SoftUni](https://softuni.bg/courses/programming-fundamentals-csharp-java-js-python).

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

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  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** | |
| TakeOdd -> We only take the chars at odd indices 1, 3, 5 etc.  Siiceercaroetavm!:?:ahsott.:i:nstupmomceqr -> icecream::hot::summer  **Cut 15 3 ->** We cut a substring starting at index 15 with length 3, then remove it from the raw password:  icecream::hot::summer -> sum  **Substitute :: - ->** We replace "::" with "-":  icecream::hot::summer -> icream-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 |

### JS Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| (["Siiceercaroetavm!:?:ahsott.:i:nstupmomceqr",  "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** | |
| TakeOdd -> We only take the chars at odd indices 1, 3, 5 etc.  Siiceercaroetavm!:?:ahsott.:i:nstupmomceqr -> icecream::hot::summer  **Cut 15 3 ->** We cut a substring starting at index 15 with length 3, then remove it from the raw password:  icecream::hot::summer -> sum  **Substitute :: - ->** We replace "::" with "-":  icecream::hot::summer -> icream-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 |