*You are a legendary weaponsmith. Heroes from all over the world come to you for the greatest weapons so they can rid the world of the greatest threats. In order for you to craft a weapon you need to assemble its particles.*

You will receive a line with **string particles**, separated by "|", representing parts of the name of a weapon. The particles will be in **mixed** order and you can **align** them through the commands, which you will receive on the next **lines**, until you receive the "**Done**" command. They will come the form of strings, separated by **space**. There are five supported commands:

* **"Move Left {index}":**
  + Moves the value at {index} position to the **Left**, **if the index exist** and the move is possible.
  + If movement is not possible, **do nothing**.
* **"Move Right {index}":**
  + Moves the value at {index} position to the **Right**, **if** **the index exists** and the move is possible.
  + If movement is not possible, **do** **nothing**.
* **"Check Even":**
  + Print the elements at **even** index positions, **separated by a single space.**
* **"Check Odd":**
  + Print the elements at **odd** index positions, **separated by a single space.**

 After the "**Done**" command, the weapon name is considered **correct** and you should print the particles in their current order **joined together** in the following format: **"You crafted {WeaponName}!"**

Input

* On the **first line**, you will receive parts of the given weapon name in a mixed order **separated by "|".**
* On the **next lines**, until the "**Done**" command, you will receive commands in the format described above.

Output

* Print the needed output upon the "Done" command as a string.
* Output should be in the format "You crafted {Weapon name}!"

Examples

|  |  |
| --- | --- |
| Input | Output |
| ha|Do|mm|om|er Move Right 0  Move Left 3  Check Odd  Move Left 2  Move Left 10  Move Left 0  Done | ha mm  You crafted Doomhammer! |
| Comments | |
| First, we receive the "Move Right 0" command, so we move "ha" one position to the right and we get "Do ha mm om as er".  Then we receive "Move Left 3" -> "Do ha om mm er"  Checking the current state of the array on odd index positons.   "Move Left 2" -> "Do om ha mm er"  Invalid index, so we do nothing  We can't move the value at zero position to the left, so we do nothing Lastly, we have to print the collection as one word, so our output is: "You crafted {Weapon name}!" | |
|  | |
| ri|As|er|hb|ng  Move Left 1  Move Right 2  Move Right 3  Move Left 2  Done | You crafted Ashbringer! |