# Messaging

Your task is to implement chat logger which works with commands.

You may receive the following commands:

* Chat {message} - add the message at last position in the chat
* Delete {messageToDelete} - delete the message if it exists
* Edit {messageToEdit} {editedVersion} - update the message with the edited version
* Pin {message} - find the given message and move it to the last index
* Spam {message1} {message2} {messageN} - add all messages at the end of the chat
* end - stop receiving commands

After the stop command, you should print the chat history starting from the first message.

### Input

* Until you receive **"end"** you will be receiving **commands**.

### Output

* As output you must **print the chat** **starting from the first message**.

### Constraints

* The **command will always be valid.**

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| Chat Hello  Chat darling  Edit darling Darling  Spam how are you  Delete Darling  end | Hello  how  are  you |
| Chat John  Spam Let's go to the zoo  Edit zoo cinema  Chat tonight  Pin John  end | Let's  go  to  the  cinema  tonight  John |

### JS Input

The input will be an array of strings

|  |  |
| --- | --- |
| **Input** | **Output** |
| (["Chat Hello",  "Chat darling",  "Edit darling Darling",  "Spam how are you",  "Delete Darling",  "end"]) | Hello  how  are  you |
| (["Chat John",  "Spam Let's go to the zoo",  "Edit zoo cinema",  "Chat tonight",  "Pin John",  "end"]) | Let's  go  to  the  cinema  tonight  John |