# Problem 2 – Chat Logger

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.**
* The messages **will always be one word strings**.
* Allowed working **time** / **memory**: **100ms** / **16MB**.

## 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 |