Problem D: Log Scanning

Now that CORA has sorted out the power surge issue, she can safely login to the nearest terminal and look for anything suspicious.

She will look in the user authentication logs for the most recent other user to login to the system. This might indicate the party responsible for the strange behavior of the other robots in the facility. She will need to scan the log file of login attempts for the last *successful* login of a username other than `cora`, (because she herself has just logged in successfully).

Input

The first line of input will contain an integer, N, giving the number of lines in the log file. Following that will be N lines. Each of these contains the word "user", a space, the username of the user attempting to login, an ellipsis, and whether the attempt was successful or not. User names will consist of only lower-case letters and digits. There is a space on either side of the ellipsis.

Output

Output should be a single line containing the username of the last successful login attempt, except for CORA herself. If there was no such successful login attempt, simply print "none".

Sample Input 1

```
6
user zlee2 ... success
user asmith ... failure
user asmith ... success
user umbr4 ... success
user eroberts ... failure
user cora ... success
```

Sample Output

```
umbr4
```

Sample Input 2

```
4
user mgarcia ... failure
user fsmith6 ... failure
user pthomas ... failure
user cora ... success
```

Sample Output 2

```
none
```