

MALD Contest 1 P1 - Scratch Cat and DDoS

Time limit: 1.0s **Memory limit:** 64M

One day, the Scratch Cat decided to use his hacker skills to shut down all websites in Yuboland. There are N websites available for him to hack. However, the Scratch Cat isn't intelligent enough to decide whether a website is hosted by Yuboland.

Therefore, he came up with a rule to determine that. The Scratch Cat believes that a website is hosted by Yuboland if

1. `yubo` (all lowercase) is a substring of the website's URL,
2. The website is directly before or after a website that satisfies the first rule.



wHy iS sCrAtCh.MiT.EdU bLoCkEd?!

Please determine the websites that the Scratch Cat will hack in alphabetical order.

Constraints

$$1 \leq N \leq 10^4$$

$$1 \leq |s_i| \leq 100$$

Input Specification

The first line will contain an integer N , the number of websites available for the Scratch Cat to hack.

The next N lines will each contain a string s_i , the URL for the i^{th} website.

Output Specification

Output the URLs of the websites that the Scratch Cat will hack in alphabetical order. **Do not** output duplicate URLs.

Sample Input

```
5
dmoj.ca
scratch.mit.edu
yubosucks.scratch
scratch.mit.edu
canada.ca
```

Sample Output

```
scratch.mit.edu  
yubosucks.scratch
```

Explanation

The second URL, `scratch.mit.edu`, is directly before a URL containing `yubo` as a substring. The third URL directly contains `yubo`. The fourth URL is identical to the second and is directly after a URL containing `yubo`. The sorted list of URLs is then `{ scratch.mit.edu, yubosucks.scratch }`. Notice two `scratch.mit.edu` URLs that satisfy the conditions, but only one is output because they are the same website.