

Problem A

Dictionary for Writing Love Letter

Time limit: 3 seconds

Memory limit: 1024 megabytes

Problem Description

Rudeus Greyrat is deeply infatuated with Sylphiette, Roxy Migurdia, and Eris Boreas Greyrat. He wants to write love letters to them, but he has no idea where to begin writing. Fortunately, he watched many romance anime in his previous life, like *The Fragrant Flower Blooms with Dignity*, *The Dangers in My Heart*, *A Silent Voice*, *Shikimori's Not Just a Cutie*, and more. So, he decides to create a dictionary for writing love letters using classic lines from those anime he watched. But he's too busy, so he requests you for help.

Give you multiple lines from anime, sort the vocabulary in those lines by lexicographical order. If the same word has appeared before, it only needs to be included in the dictionary once. If the same word has a different case (maybe one is upper case, and the other is lower case), then the first appeared will be included in the dictionary.

Input Format

Your program is to read from standard input. The input consists of multiple lines, each line contains a string.

Output Format

Your program is to write to standard output. Print the vocabularies sorted by lexicographical order. Please see the sample output.

Technical Specification

- The strings consist of A–Z, a–z, commas, periods, and spaces.
- The length of the string will not be higher than 300.
- The number of strings will not be higher than 100.

Sample Input 1

```
I am Kaoruko Waguri, and you are Rintaro Tsumugi. It is precisely  
because you are unique that I want to understand you.
```

Sample Output 1

```
am  
and  
are  
because
```

I
is
It
Kaoruko
precisely
Rintaro
that
to
Tsumugi
understand
unique
Waguri
want
you

Sample Input 2

It was you who let me see a world like this.
It was you... who made me realize how beautiful this world truly is.
All of this is because Yamada is here.

Sample Output 2

a
All
beautiful
because
here
how
is
It
let
like
made
me
of
realize
see
this
truly
was
who
world

Yamada
you

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