



## String sorting

- Time limit: 1 second
- Memory limit: 50 MB

In this program, you have to take an unknown number of strings from the user. The method of receiving input is that the user starts entering the desired words. This operation continues until the user `0` enters. The program should print all the words entered so far in English alphabetical order.

### Note:

- Entered letters include only English uppercase and lowercase letters.
- Uppercase letters have priority over lowercase letters.
- For more information on how to store characters, [ASCII Table](#) google the term
- Words with fewer characters have priority over words with more characters; For example, it is printed `a` earlier . `aa`
- In sorting words, we only look at the first two letters; So if two words were common in the first letter, we go to the second letter. If they were the same in the second letter, both words are equal in terms of sorting; Therefore, the word entered earlier in the input will be printed earlier.



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### Scoreboard

- Using ready-made string sorting functions in this question is not acceptable, and the sorting code must be completely written by you.

## Input

In the first line of the input, there is a number of words ending with zero. (The number and total length of the words is less than 1000.)

## Output

In the output, print all the given words in English alphabetical order.

## Example

### Sample input:

```
alireza Mohammad Arash anahita sarah Milad john Alireza Maryam 0
```

### Sample output:

```
Alireza Arash alireza anahita john Maryan Milad Mohammad sarah
```

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