
Permutations of words**P24674_en**

Write a program that, given n different words s_1, \dots, s_n , prints all the permutations that can be made up with the words.

Input

Input consists of a number $n > 0$, followed by s_1, \dots, s_n .

Output

Print all the permutations that can be made up with s_1, \dots, s_n .

Information about the checker

You can print the solutions to this exercise in any order.

Sample input

```
3
hola adeu hi
```

Sample output

```
(hola,adeu,hi)
(hola,hi,adeu)
(adeu,hola,hi)
(adeu,hi,hola)
(hi,hola,adeu)
(hi,adeu,hola)
```

Problem information

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