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**Permutations with repetition****P12603\_en**

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

**Input**

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

**Output**

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

**Information about the checker**

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

**Sample input 1**

```
3
hola adeu hi
```

**Sample output 1**

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

**Problem information**

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