
Subsets (1)

P18957_en

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

Information about the checker

You can print in any order both the solutions and the elements inside each solution.

Sample input

```
3
hola adeu hi
```

Sample output

```
{ }
{ hi }
{ adeu }
{ adeu, hi }
{ hola }
{ hola, hi }
{ hola, adeu }
{ hola, adeu, hi }
```

Problem information

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