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The Virtual Learning Environment for Computer Programming

Partitions P70756\_en

Write a program that, given n different words  $s_1, \ldots, s_n$  and a number p, prints all the ways to share the words between p subsets.

## Input

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

## Output

Print all the ways to share the words between p subsets. The elements of each set must appear in the same order than in the input. Print an empty line after each partition.

### Observation

Strictly speaking, a partition cannot have empty subsets, but we forget about that restriction in this exercise.

#### Information about the checker

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

## Sample input

```
2
hello bye
2
```

## Sample output

```
subset 1: {hello,bye}
subset 2: {}

subset 1: {hello}
subset 2: {bye}

subset 1: {bye}
subset 2: {hello}

subset 1: {}
subset 2: {hello,bye}
```

## **Problem information**

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