## Jutge.org

The Virtual Learning Environment for Computer Programming

## Partitions

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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