Subsets (2) P33748_en

Write a program that, given a natural number m and n different words $s_1, \ldots, s_n$, prints all the subsets of m elements that can be made up with the words.

Input

Input consists of two natural numbers m and n, followed by $s_1, \ldots, s_n$. Assume $n > 0$ and $0 \leq m \leq n$.

Output

Print all the subsets of m words that can be made up with $s_1, \ldots, s_n$.

Information about the checker

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

Sample input

```
2 5
hola adeu hi hello bye
```

Sample output

```
{hello,bye}
{hi,bye}
{hi,hello}
{adeu,bye}
{adeu,hello}
{adeu,hi}
{hola,bye}
{hola,hello}
{hola,hi}
{hola,adeu}
```

Problem information

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