

Concatenations (1)

P69197_en

Write a program that, given a word w and a sequence of words s_1, \dots, s_n , prints all the ways to obtain w by concatenating some of the given words, without changing their relative order.

Input

Input consists of a word w , followed by a natural number $n > 0$, followed by s_1, \dots, s_n . The words only include lowercase letters.

Output

Print all the ways to obtain w by concatenating some of the given words, without changing their relative order. If there is no solution, print a hyphen. Follow the format of the samples.

Information about the checker

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

Sample input 1

```
hola
9
ho la h o l a hola la hol
```

Sample output 1

```
hola
h+o+la
h+o+l+a
ho+la
ho+l+a
ho+la
```

Sample input 2

```
patata
5
tata ta pata tata pa
```

Sample output 2

```
-
```

Sample input 3

```
patata
5
pata pa ta tata tata
```

Sample output 3

```
pa+tata
pa+tata
pata+ta
```

Sample input 4

```
patata
2
pa ta
```

Sample output 4

```
-
```

Problem information

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Generation: 2026-01-25T11:38:00.451Z

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