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## Concatenations (2)

**P53390\_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 all the given words exactly once.

### 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 all the given words exactly once. 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

```
holahola
5
ho l hol a a
```

#### Sample output 1

```
ho+l+a+hol+a
ho+l+a+hol+a
hol+a+ho+l+a
hol+a+ho+l+a
```

#### Sample input 2

```
patata
2
patata pesol
```

#### Sample output 2

```
-
```

#### Sample input 3

```
papapapapa
4
p papa pa apa
```

#### Sample output 3

```
p+apa+papa+pa
p+apa+pa+papa
papa+p+apa+pa
papa+pa+p+apa
pa+p+apa+papa
pa+papa+p+apa
```

### Problem information

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