Write a program that, given a word $w$ and a sequence of words $s_1, \ldots, s_n$, 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 $s_1, \ldots, s_n$. 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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