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The Virtual Learning Environment for Computer Programming

Concatenations (2)

P53390_en

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

papapapa			
4			
р	papa	рa	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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