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The Virtual Learning Environment for Computer Programming

Pattern match X89013_en

Write a function pattern_match() with two strings as input parameters. The first one serves as a pattern and all its characters are lowercase letters but exactly one that is character *. The second one is a string of lowercase letters. Given as first parameter the pattern string s*t where s and t are respectively the prefix and suffix delimited by *, the function returns true when the second parameter is a string of length greater than or equal to the sum of the lengths of s and t (that is, the length of the pattern minus one) and its first characters are the s ones and its last characters are the t ones (that is, s and t are respectively a prefix and a suffix of the second parameter). The function returns false otherwise.

For example, if the pattern is as *to and the second parameter is astuto the result is true. Instead, it is false if the second is ato or salto.

Use the pattern_match() function to solve the input/output problem below.

Exam score: 4 Automatic part: 40%

Input

The input is a sequence of cases. Each case is made up of a pattern string, which has exactly one character * and the rest are lowercase letters, a non-negative integer k, and finally a list of k strings of lowercase letters.

Output

For each case, the pattern and the words in the list that match the pattern are printed, as shown in the example.

Sample input Sample output as*to: ato astuto aso astro casto astillero pasto asadstoutsalto asalto antebrazo pedante cantante ante remante rematependante prefijo predecesor prelimimar profeta rema remante pre*: prefijo aleta almirante apele cale alerte predecesor prelimimar x*x 3 almirante x xx xxx alerte * 6 uno dos tres cuatro cinco seis XX XXX เมทด dos tres cuatro cinco seis

Observation

Complete the following program:

Problem information

Author: Pro1

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