



(/en/),
v1.1.0

CSD Testing System

(/en/)

Knuth–Morris–Pratt algorithm

Cost: 8 | Solved: 107

Memory limit: 256 MBs

Time limit: 1 s

Input: standard input

Output: standard output

Task:

You have to write the implementation of Knuth–Morris–Pratt algorithm that finds a certain substring in a string.

Input:

The first line contains a string **s**.

The second line contains a natural **m** – the number of substrings.

Each of the next **m** lines contains a substring that is needed to be found in the string **s**.

Output:

For each substring (one per line), output *all the indexes* of a substring's appearance in the string **s** in ascending order.

Example:

Input	Output
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abcdefa	
3	3
cde	4
de	1 7
a	