



(/en/),  
v1.1.0

CSD Testing System

(/en/)

# Aho–Corasick algorithm

Cost: 12 | Solved: 24

**Memory limit:** 256 MBs

**Time limit:** 1 s

**Input:** standard input

**Output:** standard output

## Task:

You have to write the implementation of Aho–Corasick 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	