String Matching

Problem ID: stringmatching **CPU Time limit:** 1 second **Memory limit:** 1024 MB

Difficulty: 4.7

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Input

The input consists of several test cases. Each test case consists of two lines, first a non-empty pattern, then a non-empty text. Input is terminated by end-of-file. The input file will not be larger than 5 Mb.

Output

For each test case, output one line containing the positions of all the occurences of pattern in text, from first to last, separated by a single space.

Sample Input 1

p Popup helo Hello there! peek a boo you speek a bootiful language anas bananananaspaj

Sample Output 1

2.4			
2 4			
5			
7			
•			