CCC '16 S1 - Ragaman

Time Limit: 2.0s **Memory Limit:** 64M

Canadian Computing Competition: 2016 Stage 1, Senior #1

An *anagram* of a string is formed by rearranging the letters in the string. For example, the anagrams of *aab* are *aab*, *aba*, and *baa*.

A *wildcard anagram* of a string is an anagram of the string where some of the letters might have been replaced with an asterisk (`*`). For example, two possible wildcard anagrams of *aab* are **ab* and **b**.

Given two strings, determine whether the second string is a wildcard anagram of the first string.

Input Specification

The two lines of input will both consist of N $(1 \leq N \leq 100)$ characters. Each character in the first line will be a lowercase letter. Each character in the second line will be either a lowercase letter or an asterisk.

For 8 of the 15 available marks, the second line will not contain any asterisk characters.

Output Specification

Output the character `A` if the string on the second line is a wildcard anagram of the string on the first line. Otherwise, output the character `N`.

Sample Input 1

```
abba
baaa
```

Output for Sample Input 1

```
N
```

Sample Input 2

```
cccrocks
socc*rk*
```

Output for Sample Input 2

```
A
```