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# Little bear and strings

Attempted by: 294 / Accuracy: 88% / ★★★★★

Tag(s): Algorithms, Hard

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IndiaHacks 2014

Little bear has got a big string  $S$  as his birthday present. Also, he personally loves all those strings that start with  $T1$  and end with  $T2$ , and calls them good. Now, he would like most the birthday present has maximum number of good substrings. Also, he is not the kind of "bear"(:P) that would easily get fooled by substrings with different start and end positions. He would only count a string **once**, irrespective of its number of occurrences. More formally, he wants to determine the number of **distinct good substrings**.

## Input:

The input file contains multiple test cases that end with **EOF**. Each test case comprises of 3 lines each containing  $S$ ,  $T1$  and  $T2$  respectively.

## Output:

Output the required answer in a new line for every test case.

### Constraints:

$1 \leq |S|, |T1|, |T2| \leq 300000$

The maximum input file size is  $< 2$  MB.

### Note:

1. The input string contains only letters a-z.
2. A substring is any non-empty contiguous subsequence of given string. Read more [here](#).
3. Two substrings **s1** and **s2** are different from one another if either their lengths are unequal or there is at least one index **i** such that **s1[i]** is not equal to **s2[i]**. This is irrespective of start and end points of substring.

#### SAMPLE INPUT

```
hammer
ham
mer
gogoa
go
z
gogoa
g
o
```

#### SAMPLE OUTPUT

```
1
0
2
```

## Explanation

Distinct substrings being referred are : case 1: "hammer" case 2: None case 3: "go", "gogo"

**Time Limit:** 2.0 sec(s) for each input file.

**Memory Limit:** 256 MB

**Source Limit:** 1024 KB

**Marking Scheme:** Marks are awarded when all the testcases pass.

**Allowed Languages:** C, C++, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Visual Basic

## CODE EDITOR

Enter your code or [📁 Upload your code](#) as file.

All changes saved

Visual Basic (mono vbnc 4.0.1)



1 | Loading...

1:1

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💡 Press ctrl-space for autocomplete suggestions.

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