

# H

## Subexpressions

subexp. {c, cpp, pas, java}

Let  $\mathcal{E}$  be a language of expressions described by the following grammar:

$$e ::= f/n \\ | f/m e_1 \dots e_m \quad (0 < m < 10)$$

where  $f/n$  is a function symbol,  $f$  is a letter from a to z and  $n$  is a natural number ( $n < 10$ ). The language  $\mathcal{E}$  is, therefore, a subset of sequences of function symbols. An expression  $e' \in \mathcal{E}$  is a subexpression of  $e \in \mathcal{E}$  if  $e'$  is a subsequence of  $e$ .

In this problem your program will compute the number of times an expression is a subexpression of another.

### Input Description

Pairs of lines of no more than 3000 characters representing valid expressions.

### Output Description

For each pair the program will return the number of times the first expression is a subexpression of the second one.

### Sample Input

```
h/0
f/3g/2h/0f/3g/2h/0h/0g/2h/0h/0h/0
g/2h/0h/0
f/3g/2h/0f/3g/2h/0h/0g/2h/0h/0h/0
```

### Output for the Sample Input

```
6
2
```