## Cousin Wars

Sunny is fond of words. He got a new game to play with his cousin Sonali.He gives her a long string and two other smaller strings( $A$ and $B$ ).Now he asks Sonali to find the number of all the subsequences of the long string that are greater than equal to smaller string $A$ and less than equal to smaller string $B$.

Help Sonali to find the answer.
Note : Comparison of two strings is regarded same as that done by the string:compare function.
Empty string is not regarded as a subsequence.

## Input

Each input consists of 3 lines.First line has the TEXT string.
2nd and 3rd line contain two smaller strings $A$ and $B$.

## Output

One number which gives the count such that
A <= subsequence of $($ TEXT $)<=B$

## Constraints

Input will consist of all lowercase characters.
$1<=$ Length of TEXT <= 25
$1<=$ Length of $A$ and $B<=$ Length of TEXT

## Example

Input:
coforc
fc

Output:
24

