Problem C. Common Palindromes

Input file:	*standard input*
Output file:	*standard output*
Time limit:	4 seconds
Memory limit:	256 mebibytes

Rabbit loves to find palindromes from strings. He is fed up with finding palindrome from a single string, so he wants to deal with two strings.

Write a program that, given two strings S and T, finds the number of quadruples of integers (i, j, k, l) satisfying the following conditions:

- $1 \leq i \leq j \leq$ (the length of S).
- $1 \leq k \leq l \leq$ (the length of T).
- The substring of S starting at the i-th position and ending at the j-th position is exactly the same as the substring of T starting at the k-th position and ending at the l-th position, and these equal strings are palindromes.

Input

The input is given in the following format:

S
T

The first line contains a string S, and the second line contains a string T. S and T consist of uppercase English letters, and their lengths are each between 1 and 50 000, inclusive.

Output

Your program should output an integer: the number of quadruples (i, j, k, l) satisfying the conditions.

Examples

standard input	standard output
ICPC CPCPC	10
BABBAB ABBA	14
WINTER CAMP	0