Problem M. Mediocre String Problem

Input file: `standard input`
Output file: `standard output`

Given two strings s and t, count the number of tuples (i, j, k) such that

1. $1 \le i \le j \le |s|$
2. $1 \le k \le |t|$.
3. $j - i + 1 > k$.
4. The i-th character of s to the j-th character of s, concatenated with the first character of t to the k-th character of t, is a palindrome.

A palindrome is a string which reads the same backward as forward, such as "`abcba`" or "`xyzzyx`".

Input

The first line is the string s ($2 \le |s| \le 10^6$). The second line is the string t ($1 \le |t| < |s|$). Both s and t contain only lower case Latin letters.

Output

The number of such tuples.

Examples

standard input	standard output
ababa aba	5
aabbaa aabb	7