## Problem C. Cat

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 2 seconds |
| Memory limit: | 512 mebibytes |

How many distinct strings can be obtained by concatenating a non-empty suffix of string $a$ with a non-empty prefix of string $b$ ?

## Input

The first line contains a single integer $t\left(1 \leq t \leq 10^{5}\right)$, denoting the number of test cases.
Each test case is described with strings $a$ and $b$ on separate lines. Both strings consist of lowercase English letters and have length between 1 and $10^{5}$, inclusive.
The total length of strings over all test cases does not exceed $2 \cdot 10^{5}$.

## Output

For each test case, display the required number.

## Example

| standard input | standard output |
| :--- | :--- |
| 5 | 8 |
| abb | 7 |
| bba | 24 |
| aaa | 16 |
| aaaaa | 97 |
| winter |  |
| camp |  |
| ehehe |  |
| heheh |  |
| aaaaaabaaaa |  |
| aabaaaaa |  |

## Note

In the first test case, all obtainable strings are abbb, abbbb, abbbba, bb, bbb, bbba, bbbb, bbbba.
In the second test case, only strings consisting of at least 2 and at most 8 letters a can be obtained.

