Try Palindromes

locked

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Given a list of strings S[1..N], you need to count how many ordered pairs of strings are awesome. Given two integers i and j, such that 1 ≤ i, j ≤ n and i ≠ j, an ordered pair (S[i], S[j]) is called awesome if and only if concatenating S[i] and S[j] gives a palindrome.

Input Format

The first line contains an integer T denoting the total number of test cases.

In each test case, the first line contains an integer N denoting the total number of strings.

Then, there are N strings, each in a separate line. They only consist of lower case characters.

Constraints

- 1 <= T <= 5
- 1 <= N <= 10^6
- Sum of lengths of N strings <= 10^6

Output Format

For each test case, output a single line containing the answer.

Sample Input 0

```
1
3
a
ab
abb
```

Sample Output 0

```
2
```

Explanation 0

ab|a and abb|a

Submissions: 66
Max Score: 20

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C++14

```
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}
```

Line: 1 Col: 1

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