Task Description: Counting Palindromes

You subscribed to a local newspaper that has a weekly puzzle. In the puzzle, you are given a R*C matrix with each cell consist of a single lowercase alphabet. In the matrix there are several words which the characters are constructed :
- Horizontally
  - from left to the right
- Vertically
  - from top to the bottom
- Diagonally
  - from top-left to the bottom-right

You are interested in palindromes, and want to count how many palindromes are there in the matrix. A palindrome is a string which reads the same backward or forward. You think that this puzzle is too hard for you, especially when the size of the matrix is big. Therefore, you decide to write a program that can helps you.

Input
The first line will consist of two integers separated by single space representing R and C respectively.
The next R lines consist of C characters representing the matrix.

Output
You have to output a single integer representing the number of palindromes in the matrix.

Sample Input
```
3 4
abba
sadf
qwer
```

Sample Output
```
15
```

Explanation

Obviously all single-letter words in the matrix are palindromes. There are 12 single-letter words. "bb" and "abba" in the first row are palindromes. "aa" in column-1 row-1 and column-2 row-2 is also a palindrome. Therefore, there are a total of 15 palindromes.

Constraint

R and C will be between 1 and 100 inclusive.