

Palindromes

Time Limit: 1 Second
Memory Limit: 256 MB

Given a string s with length n , count the number of palindromes in the string. A palindrome is a string that reads the same backwards.

Input

The first line of input contains a single integer n ($1 \leq n \leq 1000$) - the length of the string.

The following line describe the string s . The string only contains lowercase letters.

Output

Output a single integer denoting the number of palindromes in the string.

Sample Inputs

5
abcba

Sample Outputs

7
