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Yet Another Palindrome Making Problem

Problem Code: MAKEF

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Chef has a string A (containing lowercase Latin letters only) of length N where N is **even**. He can perform the following operation any number of times:

• Swap A_i and A_{i+2} for any $1 \leq i \leq (N-2)$

Determine if Chef can convert string A to a palindromic string.

Note: A string is called a palindrome if it reads the same backwards and forwards. For example, noon and level are palindromic strings but ebb is not.

Input Format

- The first line contains a single integer T the number of test cases. Then the
 test cases follow.
- The first line of each test case contains an integer N the length of the string A.
- ullet The second line of each test case contains a string A of length N containing lowercase Latin letters only.

Output Format

For each test case, output YES if Chef can convert the string ${\cal A}$ to a palindromic string. Otherwise, output No.

You may print each character of YES and NO in either uppercase or lowercase (for example, yes, yEs, Yes will be considered identical).

Submission

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Constraints

- 1 < T < 200
- 1 < N < 1000
- S contains lowercase Latin letters only.
- ullet N is even

Sample Input 1 🖆

```
3
6
aabbaa
4
abcd
6
zzxyyx
```

Sample Output 1 🖆

YES

NO YES

Explanation

Test case 1: The given string is already a palindrome.

Test case 2: It can be proven that is it not possible to convert A to a palindromic string.

Test case 3: We can perform the following operations:

- Swap A_1 and A_3 . (Now A becomes xzzyyx)
- Swap A_2 and A_4 . (Now A becomes xyzzyx)

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Time Limit: 0.5 secs

Source Limit: 50000 Bytes

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