Practical 7

Aim :

Lapindrome is defined as a string which when split in the middle, gives two halves having the same characters and same frequency of each character. If there are odd number of characters in the string, we ignore the middle character and check for lapindrome. For example ***gaga*** is a lapindrome, since the two halves ***ga*** and ***ga*** have the same characters with same frequency. Also, ***abccab***, ***rotor*** and ***xyzxy*** are a few examples of lapindromes. Note that abbaab is NOT a lapindrome. The two halves contain the same characters but their frequencies do not match. Your task is simple. Given a string, you need to tell if it is a lapindrome.

Pract :

Input:

```
num = int(input())
lap = []
list1 = []
list2 = []
for i in range(num):
    string = input()
    lap.append(string)
    length = len(string)
    if length % 2 == 0:
        list1.append(string[0:int((length/2))])
        list2.append(string[int(length/2):int(length)])
    else:
        list1.append(string[0:int((length / 2))])
        list2.append(string[int(length / 2)+1:int(length)])

for i in range(num):
    list1[i] = sorted(list1[i])
    list2[i] = sorted(list2[i])
    if list1[i] == list2[i]:
        print('YES')
    else:
        print('NO')
```

Output:

```
PS C:\Users\Raj Beladiya> & "C:/Users/Raj Beladiya/AppData
6
gaga
abcde
rotor
xyzxy
abbaab
ababc
YES
NO
YES
YES
NO
NO
PS C:\Users\Raj Beladiya>
```