Practical 7

Question:

**Instruction**

1. **Write Student-ID, Student-Name and Practical AIM  as comment.**
2. **Insert GitHub repository link as comment.**
3. **Write appropriate comment for each logical steps.**
4. **Publish your code in GitHub repository.**
5. **Upload .pdf file only.**

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.

**Input:**

6

gaga

abcde

rotor

xyzxy

abbaab

ababc

**Output:**

YES

NO

YES

YES

NO

NO

Code:

*for* i *in* range(int(input())):

    word = input()

    y = int(len(word) / 2)

    word1 = word[:y]

    word2 = word[len(word) - y:]

*if* sorted(word1) == sorted(word2):

        print("YES")

*else*:

        print("NO")

Output:

Text

Description automatically generated