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.

Input:
6
gaga
abcde
rotor
xyzxy
abbaab
ababc
Output:
YES
NO
YES
YES
NO
NO

Code:

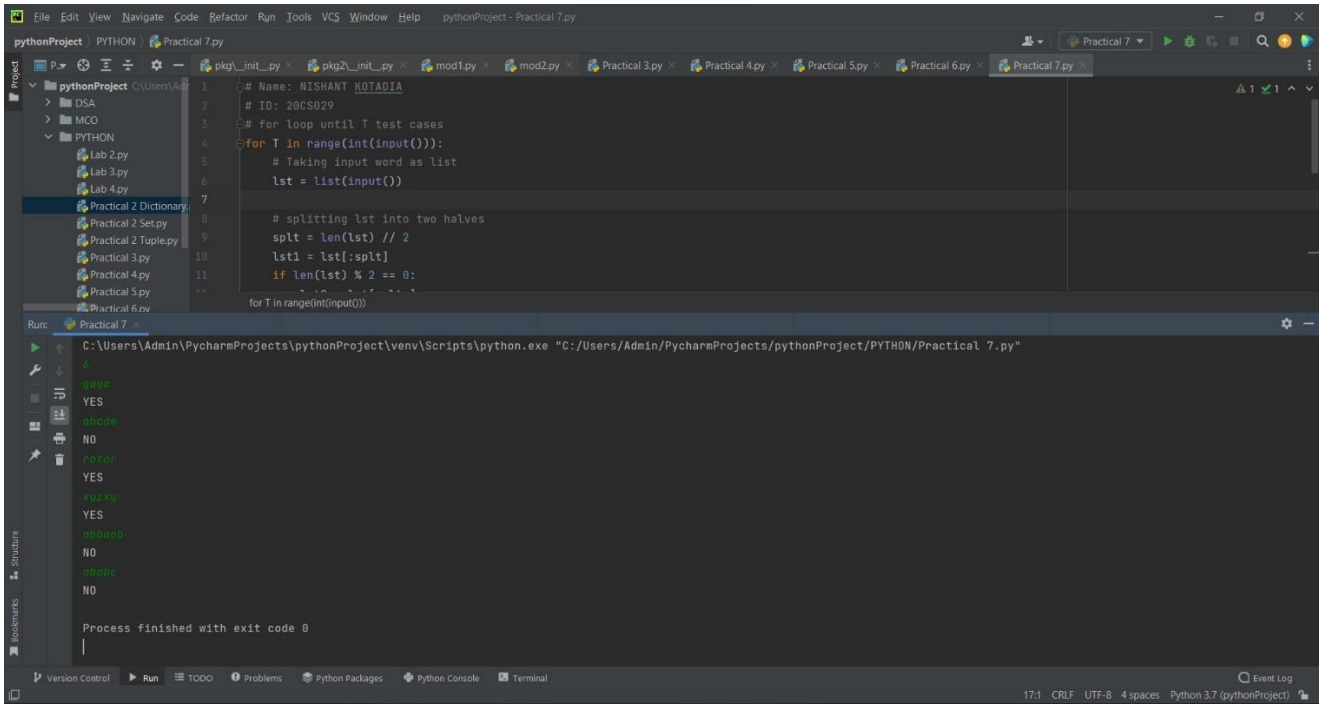
```
# Name: NISHANT KOTADIA
# ID: 20CS029
# for loop until T test cases
for T in range(int(input())):
    # Taking input word as list
    lst = list(input())

    # splitting lst into two halves
    splt = len(lst) // 2
    lst1 = lst[:splt]
    if len(lst) % 2 == 0:
        lst2 = lst[splt:]

    # if length of word is odd, ignoring middle term
    else:
        lst2 = lst[splt + 1:]
    lst1.sort()
    lst2.sort()

    # Comparing both the halves
    if lst1 == lst2:
        print('YES')
    else:
        print('NO')
```

Output:


File Edit View Navigate Code Refactor Run Tools VCS Window Help pythonProject - Practical 7.py
pythonProject PYTHON Practical 7.py
Practical 7
pkg__init__.py
pkg2__init__.py
mod1.py
mod2.py
Practical 3.py
Practical 4.py
Practical 5.py
Practical 6.py
Practical 7.py
pythonProject C:\Users\Ad
DSA
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PYTHON
Lab 2.py
Lab 3.py
Lab 4.py
Practical 2 Dictionary.
Practical 2 Set.py
Practical 2 Tuple.py
Practical 3.py
Practical 4.py
Practical 5.py
Practical 6.py
1 # Name: NISHANT KOTADIA
2 # ID: 20CS029
3 # for loop until T test cases
4 for T in range(int(input())):
5 # Taking input word as list
6 lst = list(input())
7
8 # splitting lst into two halves
9 splt = len(lst) // 2
10 lst1 = lst[:splt]
11 if len(lst) % 2 == 0:
for T in range(int(input()))
Run: Practical 7
C:\Users\Admin\PycharmProjects\pythonProject\venv\Scripts\python.exe "C:/Users/Admin/PycharmProjects/pythonProject/PYTHON/Practical 7.py"
6
gaga
YES
abcde
NO
rotor
YES
xyzxy
YES
abbaab
NO
ababc
NO
Process finished with exit code 0
Version Control
Run
TODO
Problems
Python Packages
Python Console
Terminal
Event Log
17:1 CRLF UTF-8 4 spaces Python 3.7 (pythonProject)