Faculty of Technology and Engineering

U & P U. Patel Department of Computer Engineering

Date: 02 / 25 / 2022

Practical List

Academic Year	:	2021-22	Semester	:	4
Course code	:	CE259	Course name	:	Programming in Python

Note: Practical List is for Students. We need to cover concept require to implement respective practical

Sr. No.	Aim
7.	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
| Src | ```python
n = int(input("Enter no. of test cases: "))
print('Enter',n,'strings:')
lst = []
# lst = ['gaga', 'rotor', 'abcde', 'lol', 'papa']
``` |

```python
for i in range(n):
    a = input()
    lst.append(a)

for ip in [i for i in lst]:
    ip1 = ip[:len(ip)//2]
    if(len(ip)%2 == 0):
        x = len(ip)//2
    else:
        x = len(ip)//2 + 1
    ip2 = ip[x:]
    lst1 = sorted(list(ip1))
    lst2 = sorted(list(ip2))
    # print(lst1, lst2)
    if lst1 == lst2:
        print("YES")
    else:
        print("NO")
```

```
Enter no. of test cases: 6
Enter 6 strings:
gaga
abcde
rotor
xyzxy
abbaab
ababc
YES
NO
YES
YES
NO
NO

Process finished with exit code 0
```

```
Enter no. of test cases: 3
Enter 3 strings:
papa
dad
python
YES
YES
NO


Process finished with exit code 0
```