**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.

**Code:**

def lapindrome(string): # Function to check if a string is a lapindrome

    string = [item for item in string] # Convert string to list

    string\_front = string[0:len(string)//2] # Split string into two halves

    if len(string) % 2 == 0: # If string is even

        string\_back = string[len(string)//2:]

    else: # If string is odd

        string\_back = string[len(string)//2+1:]

    string\_front.sort() # Sort the front half

    string\_back.sort() # Sort the back half

    if string\_front == string\_back: # If the two halves are equal

        return True # Return True

    else: # If the two halves are not equal

        return False # Return False

t = int(input()) # Number of Test Cases

li = [] # Empty List

for i in range(t): # Input String in List

    li.append(input())

for i in li: # Check if lapindrome

    if lapindrome(i):

        print("YES")

    else:

        print("NO")

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#   lapindrome.

# Github Repo Link: https://github.com/s-shubham-22/20CE123\_CE259\_PIP

**Output:**

