

1. Reverse a String ✓
2. Check if a String is Palindrome in Java ✓
3. Check if Two strings are Anagrams of Each other (Frequency Array Concept) ✓
4. Check if two strings are rotations of each other

Tasks:

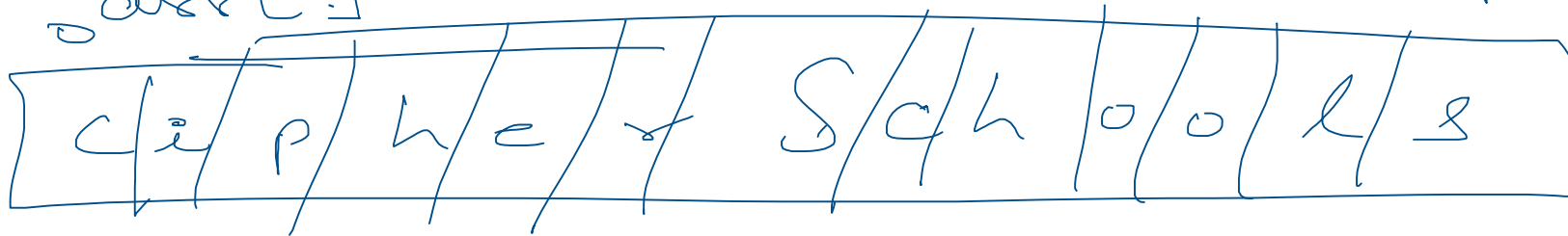
- A. Practice all the above questions
- B. Practice String Questions from GFG
- C. <https://practice.geeksforgeeks.org/problems/check-if-string-is-rotated-by-two-places/0>
- D. <https://practice.geeksforgeeks.org/problems/anagram/0>

1 Reverse the String

String S1 = "CipherSchools"

Reverse → "sloohSre hpic"

arr[]



T.C →  $O(n)$

rev = rev + arr[i]

SC  $\Rightarrow O(n)$

rev = "s"  
rev = "se"  
!  
!  
rev = "seooheS rehpil"

(B) for (S.length() - 1; 0; --)  
{ charAt(i)

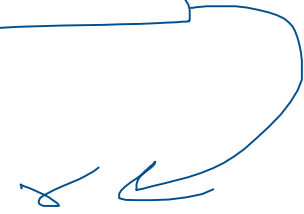
} T.C =  $O(n)$   
S.C = 1

Good Solution

h e | | 0

2 pointer approach

l  
| 1 | e | e | 0 |  
r



h e l l o

Time  $\rightarrow O(\frac{n}{2}) \rightarrow O(n)$

2 Check if a string is Palindrome

ARORA

Palindrome

No  
Cipher

MALAYALAM

ex  
ARORA

3 Anagrams  
String 1

String 2

Anagram

U	✓	
LISTEN	SILENT	Yes
GOOD	GOD	<u>No</u>
TRIANGLE	INTEGRAL	Yes

Subquestion → Count the freq of letters in a string.

S → HELLO

H → 1

E → 1

L → 2

O → 1

Z → 25



A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

check if 2 strings are rotations of e.

String S1 → "ABCD"  
String S2 → "CDAB" ] → True

String S1 → "ABCD"  
String S2 → "ACBD" ] → False

BCDA (1)

= DAB (2)

> ABC (3)

How

if

n-1 times

$$str = \underbrace{S\_substring(2)}_{BCD} + \underbrace{S\_substring(0,1)}_A$$

it  
it

S1  
ABCD

S2  
CDBA

back1  $\rightarrow$  length()

back2  $\rightarrow$  str = S1 + S1

~~ABCD~~  
→ ABCD ABCD

if (str.contains(s2))

{ return true

~~return false~~ }