

HackerRank Practice Set – 14 Questions

=====

Below are all 14 questions EXACTLY as provided in the chat, with full descriptions, examples, and constraints.

1) Palindrome Array Checker (Two Pointer)

You are given an array of numbers

You must:

Step 1: Check if the array is a palindrome

A palindrome means:

First element = Last element

Second element = Second last

And so on...

Use the two-pointer method:

left pointer → index 0

right pointer → last index

■ Do NOT reverse the array.

Return:

CASE 1: If palindrome → return sum of elements

CASE 2: If NOT palindrome → return index of first mismatch (0-based)

Examples:

Input: [3, 5, 7, 5, 3]

Output: 23

Input: [2, 4, 6, 4, 9]

Output: 0

Input: [4, 2, 6, 3, 4]

Output: 1

Input: [8, 9, 9, 8]

Output: 34

Input: [10]

Output: 10

2) Count CVC Words in a Paragraph (Regex)

CVC = Consonant – Vowel – Consonant

Rules:

- Word must be exactly 3 letters
- 1st letter = consonant
- 2nd letter = vowel
- 3rd letter = consonant
- Case-insensitive
- No numbers or symbols

Vowels: a, e, i, o, u

Task:

Read a paragraph and count words matching CVC using regex.

Example:

Input: "The cat sat on the big red bat."

Output: 5

3) Count Unique Elements in Sorted Array (Two-Pointer)

Given a sorted array, remove duplicates and keep one copy of each.

Return ONLY the count of unique elements.

Two-pointer approach:

i → track unique

j → scanner

When `arr[j] != arr[i]`, increment i.

Examples:

Input: [1, 1, 2, 2, 2, 3, 4, 4]

Output: 4

Input: [5, 5, 5, 5]

Output: 1

Input: [1, 2, 3, 4]

Output: 4

Input: []

Output: 0

4) Reverse Only Words With Even Length (NO loops, NO regex)

Given a sentence:

If word length is even → reverse it

If odd → keep same

Spaces must remain exactly same.

Allowed:

`.trim()`, `.split(" ")`, `.map()`, `.join()`, `.length`

Examples:

"Hello world" → "Hello world"

"Hi John Doe" → "iH nhoJ Doe"

"Time to code" → "emiT ot edoc"

"Play and fun" → "yalP and fun"

5) Count Words With Alternating Characters (a → b → a → b)

A valid alternating word:

- Adjacent characters must differ
- Any length ≥ 2

Example:

Valid: aba, xyx, pap, 1212

Invalid: aa, abba, hello

Input: "aba xyx hello pap"

Output: 3

6) Reverse Only the Vowels in a String

Reverse vowels but keep consonants fixed.

Example:

Input: leetcode

Output: leotcede

7) Count Pairs With Given Sum (Two-Pointer)

Input:

n

n sorted numbers

target sum

Example:

Input:

6

1 2 3 4 5 6

7

Output: 3

8) Convert CamelCase to snake_case

Example:

Input: convertThisString

Output: convert_this_string

9) First Non-Repeating Character in a String

Return first character appearing only once.

If none → return -1

Example:

Input: aabbccdd

Output: c

10) Count Words Starting and Ending With Same Letter

Case-insensitive

Example:

Input: "Anna went to Asia and met Arora"

Output: 3

11) Remove Consecutive Duplicate Characters

Example:

Input: xxxyyyzzz

Output: xyz

12) Check if Two Strings Are Anagrams

Ignore case and spaces.

Output: YES or NO

Example:

Listen

Silent

→ YES

13) Rotate Array Right by K Positions

Example:

Input:

5

1 2 3 4 5

2

Output:

4 5 1 2 3

14) Count Words That Contain Only Digits

Example:

Input: "My id is 9876 and pin is 4321"

Output: 2
