<u>Note:</u> Please try these questions without using AI tools.

<u>Exercise -1: Palindrome Checker-1</u>
- A palindrome is a series of characters that reads the same way from left to right and right to left.
    - Examples: level, rotor, kayak, Able was I I saw Elba
- Notice that capitalization does not matter.
- Write a palindrome checker in C that:
    - Reads in a string from the user (may contain spaces and mixed capitalization)
    - Prints "YES it is a palindrome" if the input string is a palindrome, or "NO it is not a palindrome" otherwise.
- Use array indexes to solve this problem.

<u>Exercise -2: Palindrome Checker-2</u>
- Solve Exercise 1 using only pointers and pointer arithmetic.