**RECURSION CHECKPOINT**

**PROBLEM STATEMENT**

To test if a word is a palindrome

**PSEUDOCODE**

1. Declare the function for the process of Palindrome checking
2. Convert the word to lowercase (case-insensitive checking)
3. Initialize counters for the start and end of the word
4. Iterate until the pointers meet in the middle
5. If characters at the pointers are not the same, it's not a palindrome
6. Move the pointers towards the center
7. If the loop completes, the word is a palindrome

function isPalindrome(word):

lowercaseWord = toLowerCase(word) // Convert the word to lowercase (case-insensitive check)

start = 0 // Initialize pointers for the start and end of the word

end = length(lowercaseWord) - 1

while start < end: // Iterate until the pointers meet in the middle

if lowercaseWord[start] ≠ lowercaseWord[end]: // If characters at the pointers are not the same, it's not a palindrome

return false

start = start + 1 // Move the pointers towards the center

end = end - 1

// If the loop completes, the word is a palindrome

return true