Valid Palindrome

For this problem we need to check if a string is a palindrome after:
1. Lowercasing
2. Removing non-alphanumeric characters

Approach : Two Pointers :

Steps: 1. Use two indices: left = 0, right = s.length( ) -1.
   2. While left < right :
       · Skip non-alphanumeric characters.
       · Compare lowercase characters at left and right.
       · If mismatch -> return false.
   3. Return true.

Complexity :
   - Time : $O(n)$ (single scan)
   - Space : $O(1)$ (in place check)