Python coding from pseudocode

Example 1

Complete the function check\_palindrome which takes in a sentence s, and returns True if it is a palindrome and False otherwise. Your function does not need to consider punctuations and should be case-insensitive. For example:

>>> s = “Able was I, ere I saw Elba.”

>>> check\_palindrome(s)

True

Method 1 (iteration)

Isolate all alphabets in the string and filter out all non-alphabets, e.g. punctuations, spaces and special characters

Convert all alphabets to lowercase

Return True if the alphabets are the same forwards and backwards

Bonus challenge: try to complete the function using a one-line return statement.

Method 2 (recursion)

First isolate all the alphabets in the string and filter out non-alphabets, same as above

Convert all letters into lowercase

Base case: if the resulting string has only one char, it is a palindrome.

Base case 2: if the resulting string has 2 chars, it is a palindrome if the first and 2nd char are the same

Recursive case: else, it is a palindrome if the first and last characters are the same and the middle chars are also a palindrome.

Bonus challenge: try to implement the recursive function in 2 lines or less.