Program Design Task:

The goal of this lab is to implement the specified assistance functions in accordance with the guidelines outlined below. As a result, will help to ensure a stable implementation of the Porter Stemming Algorithm, which will be at the heart of the BearING search engine.

There are 9 functions

1. is_vowel will return true when the argument of it is a vowel. Otherwise, return false.
2. is_consonant returns true when the argument of it is a consonant and false otherwise.
3. ends_with which contains two strings, candidate and suffix (in order) will return true when candidate and suffix are empty strings. Otherwise, it returns false. If candidate ends with suffix, ends_with returns true. Otherwise, it returns false.
4. ends_with_double_consonant returns true if the last two characters of the argument are both consonants, and equal to one another. It returns false otherwise.
5. ends_with_cvc returns true if the last 3 characters of the argument are a consonant, a vowel, and then a consonant. It returns false otherwise.
6. count_consonants_at_front will return the number of the consonants from the beginning of the string until it reaches the first vowel in that string.
7. count_vowels_at_back returns the number of the vowels at the end of the arguments (right after the last consonant).
8. contains_vowel will return true if there is at least 1 vowel in the string. It returns false otherwise.
9. new_ending creates a new string from candidate by removing its last suffix length characters and replacing them with replacement. The num_ending returns that new string.