Question 3 (8)

REMOVEVOWELS (inputString, count, newString) (n)

‘’’Function passed are a string, an integer and another string.

Returns a string. Function places every character that is not a vowel into a new string

Until the end of the input string. It is then returned to the user.‘’’

//if we have gone through the entire string then return the new string.

If count = inputString length (n)

Return newString (1)

Else (n-1)

//otherwise if the current letter is not a vowel then add it to the new string

If inputString[count] ≠ a vowel (n)

newString <- newString + inputString[count] (n-m)

return REMOVEVOWELS(inputString, count+1, newString) (n-m)

Else (m)

//if it is a vowel, then move onto the next character.

return REMOVEVOWELS(inputString, count+1, newString) (m)

Runtime:3n + 2m + 2(n-m) + (n-1)+ 1

m being number of vowels, n being length of string.

Big O: O(n)