PROBLEM

Arrange Consonants and Vowels □

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Medium Accuracy: 49.98% Submissions: 28K+ Points: 4

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Given a singly linked list having **n** nodes containing english alphabets ('a'-'z'). Rearrange the linked list in such a way that all the vowels come before the consonants while maintaining the **order of their arrival**.

Example 1:

Input:

n = 9

linked list: $a \rightarrow b \rightarrow c \rightarrow d \rightarrow e \rightarrow f \rightarrow g \rightarrow h \rightarrow i$

Output:

a -> e -> i -> b -> c -> d -> f -> g -> h

Explanation:

After rearranging the input linked list according to the condition the resultant linked list will be as shown in output.

Example 2:

Input:

n = 8

linked list: a -> b -> a -> b -> d -> e -> e

Output:

a -> a -> e -> e -> b -> b -> d -> d

Explanation:

After rearranging the input linked list according to the condition the resultant linked list will be as shown in output.

Your Task:

Your task is to complete the function arrangeCV(), which takes head of linked list and arranges the list in such a way that all the vowels come before the consonants while maintaining the order of their arrival and returns the head of the updated linked list.

Expected Time Complexity: O(n) Expected Auxiliary Space: O(1)

Constraints:

 $1 \le n \le 10^4$

'a' <= elements of linked list <= 'z'

CODE

```
#User function Template for python3
.....
# Node Class
class Node:
  def __init__(self, val):
    self.data = val
    self.next = None
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class Solution:
  #Function to reverse a linked list.
  def arrangeCV(self, head):
    # Code here
    vowels = ["a","e","i","o","u"]
    dummy = Node("p")
    dummy.next = head
    temp = dummy
    curr = dummy
    while temp and temp.next:
      if temp.next.data not in vowels:
         break
      temp = temp.next
      curr = curr.next
    while curr and curr.next:
      if curr.next.data in vowels:
        front = temp.next
        temp.next = curr.next
        temp = temp.next
         curr.next = temp.next
        temp.next = front
      else:
         curr = curr.next
    return dummy.next
```