This problem has 2 conditions:

1) vowels == consonants

2) (vowels \* worsonants) ? k ==0 To check the First words trun for any sub-array i-j, we can compute it by U(1) with prefix sem. let presun [] = # of roweles - # of consonants in S[1):]. so: sub-arry [i,j] has (1) == presunti-1]. => let creat group [k] contain all i notest that han presum [i] = k. = any pairs in each group alway satisfy (1) Now, we want to find how many pairs in each group. sutisfy (2) Beaus rowels == consonants in unlid sub-army =) (2) (=) voul 2 % (=0) let consider subary [i+1, j] satisfy both andity.  $\left(\frac{J-i}{2}\right)^2$  % h=0 (vous = consum) vous \* consums = j-L).  $\frac{j^2 - 2ij + i^2}{2i} = 0$ The part ix i make the computation O(u2) to check coli, But we need some other devection to reduce the complexity

If the condition 
$$\left(\frac{j-i}{l}\right)^2 2 l k$$
 be equival by  $\frac{j-i}{2}$   $\frac{2}{3} k_{not}$ .

If will roduce the compliss if  $\frac{j-i}{2}$   $\frac{2}{3} l k = 0$ .

(i)— $l^2 2 l k = 0$ 

(ii)— $l^2 2 l k = 0$ 

(iii)— $l^2 2 l k = 0$ 

(iv)— $l$ 

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