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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