Explain Codeforce Solution 2086/D

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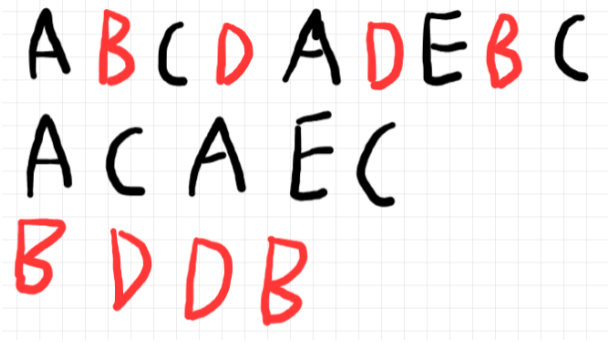
1 Idead of the solution

We can split every solution in 2 subsolution, so in order to calculate the solution we can first compute the subsolution and then multiplt them.



Considering a descending array like arr = 6,3,2,1 corresponding for example to the letters 'a', 'g' , 'z' , 'f' we can first decide thet all the 'a' shold go in the first subarray and the other in the second. we make this computing in a tree all the binary string arr1 and arr2 such that arr*arr1 = arr*arr2 (we want this condition io order to create a correct string array from the 2 sub string array). Then for every arr1 and arr2 whe can calculate all the combination. for example arr1 = 1,0,0,0 mean that all the 'a' stay in the same subarray, we have only one combination, and 0,1,1,1 mean that 'g' , 'z' , 'f' stay in the other subarray, 30 combination. There are some difference if the lenght of the phrase is odd.