SUM OF BEAUTY OF ALL SUBSTRINGS

\$\fin this problem, we are given a string and we are supposed to return the sum of heauty of each of the substrings.

Beauty of a substring is the difference between the number of occurrences of the most occurring letter and the number of occurrences of the least occurring letter

Optimal way to do this is to create an away of substrings and just calculate each substring's beauty and add it to our answer.

Pseudocode is

beauty Of Substrings (str, N) of

ans = 0

for (i = 0 -> N - 1)

int [26] freq,

for (j = i -> N - 1)

ch = str[j]

freq [ch] + = 1

min_ans = INT_MIN

max_ans = INT_MAX

for (k = 0 -> 26)

if (freq [k] > 0)

min_ans = min (min_ans,

```
freq[k]

max_gas = max(max_gas,

freq(k)
ans = max_ans - min_ans
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