Line: 71 Col: 52

2

3

5

6

8

9

10

string weight

CCC dd

ddd 12 dddd 16

Now for each value in *queries*, see if it exists in the possible string weights. The return array is ['Yes', 'No', 'No', 'Yes', 'No'].

Function Description

Complete the weightedUniformStrings function in the editor below.

weightedUniformStrings has the following parameter(s):

- string s: a string

· int queries[n]: an array of integers

Returns

string[n]: an array of strings that answer the queries

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Input Format

19 12 20 13 21 22 14 23 15 0 24 16 25 17 q 18

• The weight of a string is the sum of the weights of its characters. For example:

apple	1 + 16 + 16 + 12 + 5 = 50			
hack	8 + 1 + 3 + 11 = 23			
watch	23 + 1 + 20 + 3 + 8 = 53			
ccccc	3+3+3+3+3=15			
aaa	1 + 1 + 1 = 3			
ZZZZ	26 + 26 + 26 + 26 = 104			

• A uniform string consists of a single character repeated zero or more times. For example, ccc and a are uniform strings, but bcb and cd are

Given a string, \boldsymbol{s} , let \boldsymbol{U} be the set of weights for all possible uniform contiguous substrings of string \boldsymbol{s} . There will be \boldsymbol{n} queries to answer where each query consists of a single integer. Create a return array where for each query, the value is Yes if $query[i] \in U$. Otherwise, append No.

Note: The \in symbol denotes that $m{x}[i]$ is an element of set $m{U}$.

Example

s = 'abbcccdddd'

queries = [1, 7, 5, 4, 15].

Working from left to right, weights that exist are:

```
A weighted string is a string of lowercase English letters where each letter has a weight. Character weights are {f 1} to {f 26} from {m a} to {m z} as shown
                                                                                                                                          11 #
                                                                                                                                          17
                                                                                                                                          24
                                                                                                                                          25 🗸
                                                                                                                                          27
                                                                                                                                          34
                                                                                                                                          41
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                                                                                                                                          46
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                                                                                                                                          48 ~
```

Complete the 'weightedUniformStrings' function below. # The function is expected to return a STRING_ARRAY. # The function accepts following parameters: 14 # 1. STRING s # 2. INTEGER_ARRAY queries 18 ∨ def weightedUniformStrings(s, queries): weight = 1weights = {} alphas = string.ascii_lowercase # fill in the hash_map of weights of all the ascii lowercase characters for alpha in alphas: weights[alpha] = weight weight += 1 # calculate the weights of all the uniform substrings and store in hash map # initializing hash map for that uniform_weights = {} # starting with alpha at idx 0 in string s # current alpha's weight alpha_weight = weights[s[0]] # current uniform substring's weight uniform_weight = alpha_weight # storing the current uniform substring's character in a buffer var # current alpha buffer = s[0]# to store the result result = [] for idx in range(1, len(s)): # if this conditions is true # the current substring is still uniform 51 🗸 if s[idx] == buffer: # update the map of uniform weights uniform_weights[uniform_weight] = buffer 54 # update the current uniform string's weight uniform_weight += alpha_weight 57 v else: # insert the weight of last uniform substring uniform_weights[uniform_weight] = buffer # now change the buffer buffer = s[idx] alpha_weight = weights[s[idx]] # new uniform substring's weight is equal to current character's weight uniform_weight = alpha_weight 67 # the last uniform weight would not have been added to the map # so, add it explicitly uniform_weights[uniform_weight] = buffer 69 # check if the query ⊂ uniform_weights hash map 71 for query in queries: 72 🗸 73 🗸 if query in uniform_weights: 74 result.append('Yes') 75 v else: result.append('No') return result