**Problem #1417: Reformat The String**

<https://leetcode.com/problems/reformat-the-string/description/>

**My Solution:**

1. Initialize countLet and countNum to 0. Initialize letters and numbers as empty lists.
2. Iterate through s. If the character in s is an alphabet, append it to letters and increment countLet by 1. If the character is a number, then increment countNum by 1 and add the character to numbers.
3. Initialize res to an empty list to hold the result.
4. Check if the length of s is even. If so, there should be an equal number of countNuma nd countLet. If not, return an empty string. If so, iterate through numbers and letters and append to res a number from numbers and then a letter from letters alternately.
5. If s is of odd length then check the difference between countLet and countNum. If the absolute value of the difference is not 1 then return an empty string. Otherwise check if countNum is larger or countLet is larger. If countNum is larger, start with a number from numbers and then alternate with a letter from letters and append these to res. If CoutnLet is larger, then start with a letter and alternate with a number. Append these to res.
6. Join res into a string and return this string.

class Solution:

def reformat(self, s: str) -> str:

countLet = 0

countNum = 0

letters = []

numbers = []

for char in s:

if char.isalpha():

countLet += 1

letters.append(char)

else:

countNum += 1

numbers.append(char)

res = []

if len(s) % 2 == 0: # even length

if countLet != countNum:

return ""

for i in range(countNum):

res.append(numbers[i])

res.append(letters[i])

else: # odd length

if abs(countLet - countNum) != 1:

return ""

if countNum > countLet:

for i in range(countLet):

res.append(numbers[i])

res.append(letters[i])

res.append(numbers[-1])

else:

for i in range(countNum):

res.append(letters[i])

res.append(numbers[i])

res.append(letters[-1])

return "".join(res)