**6 kyu**

**Arrays of Lists of Sets**

7493% of 5090 of152[KenKamau](https://www.codewars.com/users/KenKamau)

Python

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In this Kata, you will be given a list of strings and your task will be to find the strings that have the same characters and return the sum of their positions as follows:

solve(["abc","abbc", "ab", "xyz", "xy", "zzyx"]) = [1,8]

-- we see that the elements at indices 0 and 1 have the same characters, as do those at indices 3 and 5.

-- we therefore return [1,8] because [0+1,3+5] = [1,8]. This result is sorted.

-- ignore those that don't have at least one matching partner, such as "ab" and "xy".

Another example...

solve(["wkskkkkkk","fokoo","wkskk","uizzzz","fokooff","wkskkkk","uizzzzzzz"]),[5,7,9]);

--The element at index 0 is similar to those at indices 2 and 5; so 0 + 2 + 5 = 7.

--The element at index 1 is similar to that at index 4; so 1 + 4 = 5.

--The element at index 3 is similar to that at index 6; so 3 + 6 = 9.

--The result must be sorted. We get [5,7,9].

<https://www.codewars.com/kata/arrays-of-lists-of-sets/python>

def solve(arr):

diccio = { }

for i in range(0, len(arr)):

ss = ''.join(sorted(list(set(arr[i]))))

if ss in diccio:

diccio[ss] += str(i) + " "

else:

diccio[ss] = ""

diccio[ss] += str(i) + " "

#diccio[ss] = i

ans = []

for keys in diccio:

sp = diccio[keys].strip().split(' ')

results = list(map(int, sp))

if(len(results) >= 2):

ans.append(sum(results))

return sorted(ans )

#print(ss)

print(solve(['wkskkkkkk','fokoo','wkskk','uizzzz','fokooff','wkskkkk','uizzzzzzz']))

[Blind4Basics](https://www.codewars.com/users/Blind4Basics)

**from collections import defaultdict**

**def solve(arr):**

**dct = defaultdict(list)**

**for i,fs in enumerate(map(frozenset, arr)):**

**dct[fs].append(i)**

**return sorted(sum(lst) for lst in dct.values() if len(lst) > 1)**

[Unnamed](https://www.codewars.com/users/Unnamed)

**from collections import defaultdict**

**def solve(strings):**

**indices\_by\_chars = defaultdict(list)**

**for i, s in enumerate(strings):**

**indices\_by\_chars[frozenset(s)].append(i)**

**return sorted(sum(js) for js in indices\_by\_chars.values() if len(js) > 1)**

[mxdmg](https://www.codewars.com/users/mxdmg)

**from collections import defaultdict**

**def solve(a):**

**d = defaultdict(list)**

**for i,j in enumerate(''.join(sorted(set(x))) for x in a):**

**d[j].append(i)**

**return sorted(sum(i) for i in d.values() if len(i) > 1)**