**6 kyu**

**Anagram difference**

5197% of 3468 of115[kingcobra](http://www.codewars.com/users/kingcobra)

Python

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Given two words, how many letters do you have to remove from them to make them anagrams?

**Example**

* First word : c od e w ar s (4 letters removed)
* Second word : ha c k er r a nk (6 letters removed)
* Result : **10**

**Hints**

* A word is an anagram of another word if they have the same letters (usually in a different order).
* Do not worry about case. All inputs will be lowercase.
* When you're done with this kata, check out its big brother/sister : <https://www.codewars.com/kata/5b1b27c8f60e99a467000041>

<http://www.codewars.com/kata/anagram-difference/python>

*'''*

*Created on 13 jun. 2018*

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*'''*

#if \_\_name\_\_ == '\_\_main\_\_':

# pass

def **anagram\_difference**(w1, w2):

a = {}

b = {}

for ch in w1:

if ch in a:

a[ch]+=1

else:

a[ch]=1

for ch in w2:

if ch in b:

b[ch]+=1

else:

b[ch] = 1

comunes = 0

for k,v in a.items():

if k in b:

comunes += min(v, b.get(k))\*2

return len(w1) + len(w2) - comunes

#for k,v in a.items():

# print ("%s -> %s" %(k,v))

w1= *"codewars"*

w2 = *"hackerrank"*

print(anagram\_difference(w1,w2))

------------SOLUCION POR [dtkatch](http://www.codewars.com/users/dtkatch) ------------------------

###### 

**def anagram\_difference(w1, w2):**

**l1 = 26 \* [0]**

**l2 = 26 \* [0]**

**for i in range(len(w1)):**

**l1[ ord('a')-ord(w1[i]) ] += 1**

**for i in range(len(w2)):**

**l2[ ord('a')-ord(w2[i]) ] += 1**

**r = 0**

**for i in range(26):**

**r += abs( l1[i] - l2[i] )**

**return r**