**6 kyu**

**Common array elements**

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Python

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Given three arrays of integers, return the sum of elements that are common in all three arrays.

For example:

common([1,2,3],[5,3,2],[7,3,2]) = 5 because 2 & 3 are common in all 3 arrays

common([1,2,2,3],[5,3,2,2],[7,3,2,2]) = 7 because 2,2 & 3 are common in the 3 arrays

Array lengths in random tests run from 5000 to 10000 elements.

More examples in the test cases.

<https://www.codewars.com/kata/common-array-elements/python>

**def** common\_array\_elements(a,b,c):

    da = {}

    db = {}

    dc = {}

**for** i **in** range(0, len(a)):

        da[a[i]]=0

**for** i **in** range(0, len(b)):

        db[b[i]]=0

**for** i **in** range(0, len(c)):

        dc[c[i]]=0

**for** i **in** range(0, len(a)):

        da[a[i]]+=1

**for** i **in** range(0, len(b)):

        db[b[i]]+=1

**for** i **in** range(0, len(c)):

        dc[c[i]]+=1

    suma = 0

**for** key **in** da:

**if** key **in** db **and** key **in** dc:

            suma += key \* min(da[key], db[key], dc[key])

**return** suma

a = [ 1, 2, 2, 3 ];

b = [ 5, 3, 2, 2 ];

c = [ 7, 3, 2, 2 ];

**print**(common\_array\_elements(a, b, c))