Four Sum - 2

Given four arrays containing integer elements and an integer **sum**, the task is to count the quadruplets such that each element is chosen from a different array and the sum of all the four elements is equal to the given sum.

```
def fourSum(A, B, C, D, target):
    freq = {}
    count = 0
    for ele in A:
        for el in B:
            freq[ele + el] = freq.get(ele + el, 0) + 1

    for ele in C:
        for el in D:
            val = target - (ele + el)
            if val in freq:
                count = count + freq[val]

    return count


P, Q, R, S = [1, -1, 2, 3, 4], [3, 2, 4], [-2, -1, 2, 1], [4, -1]
sum_ = 3

print(fourSum(P, Q, R, S, sum_))
```