

## Problem Challenge 1

We'll cover the following ^

- Quadruple Sum to Target (medium)
- Try it yourself

### Quadruple Sum to Target (medium) #

Given an array of unsorted numbers and a target number, find all **unique quadruplets** in it, whose **sum is equal to the target number**.

Example 1:


```
Input: [4, 1, 2, -1, 1, -3], target=1
Output: [-3, -1, 1, 4], [-3, 1, 1, 2]
Explanation: Both the quadruplets add up to the target.
```


Example 2:


```
Input: [2, 0, -1, 1, -2, 2], target=2
Output: [-2, 0, 2, 2], [-1, 0, 1, 2]
Explanation: Both the quadruplets add up to the target.
```


### Try it yourself #

Try solving this question here:

 Java

 Python3

 JS


 C++

```
1 def search_quadruplets(arr, target):
2     arr.sort()
3     quadruplets = []
4
5     for i in range(len(arr)):
6         for j in range(i+1, len(arr)):
7             p, q = j+1, len(arr)-1
8
9             while p < q:
10                tempSum = arr[i] + arr[j] + arr[p] + arr[q]
11                if tempSum == target:
12                    quadruplets.append([arr[i], arr[j], arr[p], arr[q]])
13
14                while p < q and arr[p+1] == arr[p]:
15                    p += 1
16                while q > j and arr[q-1] == arr[q]:
17                    q -= 1
18
19                if tempSum > target:
20                    q -= 1
21                else:
22                    p += 1
23
24     return quadruplets
25
```

Test

Save

Reset



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