

# 4Sum

Try to solve the 4Sum problem.

We'll cover the following ^

- Statement
- Examples
- Understand the problem
- Try it yourself

## Statement

Given an array `nums` of  $n$  integers, return an array of all the unique quadruplets, `[nums[a], nums[b], nums[c], nums[d]]` such that we get the following:

- $0 \leq a, b, c, d < n$
- `a`, `b`, `c`, and `d` are distinct.
- `nums[a] + nums[b] + nums[c] + nums[d] = target`

You may return the answer in any order.

### Constraints:

- $1 \leq \text{nums.length} \leq 200$
- $-10^9 \leq \text{nums}[i] \leq 10^9$
- $-10^9 \leq \text{target} \leq 10^9$

## Examples

Sample example 1

Input

arr	1	0	-1	0	2	-2
target	0					

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Output

ans	[-2, -1, 1, 2]	[-2, 0, 0, 2]	[-1, 0, 0, 1]
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1 of 2

Sample example 2

Input

arr	1	0	-1	0	2	-2
target	3					

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Output

ans	[1, 2, 0, 0]
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## Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

4Sum

1

What is the output for the following input?

arr = [-3, 9, -6, 0, 3, 6]

target = 0

A) [-3, 9, -6, 0]

B) [3, 6, 0, 9]

C) [-3, -6, 9]

Submit Answer



Question 1 of 2  
0 attempted



Reset Quiz ↻

## Try it yourself

Implement your solution in the following coding playground:

Java



usercode > FourSum.java

```
1 import java.util.*;
2 class FourSum {
3     public static List<List<Integer>> fourSum(int[] nums, int target) {
```

```
7 }
```





Submit

Test Cases Results

Case 1

Case 2

Case 3

Input #1

[1,2,-1,0,-2,2]

Input #2

0

4Sum

Need a Hint?

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Evaluate Reverse Poli...

Loud and Rich



Mark as  
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