

@LeetCode

Given an array `nums` of  $n$  integers and an integer `target`, are there elements  $a$ ,  $b$ ,  $c$ , and  $d$  in `nums` such that  $a + b + c + d = \text{target}$ ? Find all unique quadruplets in the array which gives the sum of `target`.

**Note:**

The solution set must not contain duplicate quadruplets.

**Example:**

Given array `nums = [1, 0, -1, 0, -2, 2]`, and `target = 0`.

A solution set is:

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