

4Sum

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:

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

You may return the answer in any order.

Example 1:

Input: *nums* = [1,0,-1,0,-2,2], *target* = 0

Output: [[-2,-1,1,2],[-2,0,0,2],[-1,0,0,1]]

Example 2:

Input: *nums* = [2,2,2,2,2], *target* = 8

Output: [[2,2,2,2]]

Constraints:

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