**15. 3Sum**

Medium

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Given an array nums of *n* integers, are there elements *a*, *b*, *c* in nums such that *a* + *b* + *c* = 0? Find all unique triplets in the array which gives the sum of zero.

Notice that the solution set must not contain duplicate triplets.

**Example 1:**

**Input:** nums = [-1,0,1,2,-1,-4]

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

**Example 2:**

**Input:** nums = []

**Output:** []

**Example 3:**

**Input:** nums = [0]

**Output:** []

**Constraints:**

* 0 <= nums.length <= 3000
* -105 <= nums[i] <= 105