3Sum

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Total Accepted: **74338** Total Submissions: **439054** Difficulty: **Medium**

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

Note:

- Elements in a triplet (*a*,*b*,*c*) must be in non-descending order. (ie, *a* ≤ *b* ≤ *c*)
- The solution set must not contain duplicate triplets.

```
For example, given array S = {-1 0 1 2 -1 -4},

A solution set is:
(-1, 0, 1)
(-1, -1, 2)
```

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```
/**
 * Return an array of arrays of size *returnSize.
 * Note: The returned array must be malloced, assume caller calls free().
 */
int** threeSum(int* nums, int numsSize, int* returnSize) {

}
```

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