

Unknown Title



Description

Description



Note

Note



Editorial

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Solutions

Solutions



Submissions

Submissions



Code

Code



Testcase

Testcase

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Test Result

Test Result

15. 3Sum

Medium



Topics

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Hint

Given an integer array `nums`, return all the triplets `[nums[i], nums[j], nums[k]]` such that $i \neq j$, $i \neq k$, and $j \neq k$, and $nums[i] + nums[j] + nums[k] == 0$.

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]]`

Explanation:

`nums[0] + nums[1] + nums[2] = (-1) + 0 + 1 = 0.`

`nums[1] + nums[2] + nums[4] = 0 + 1 + (-1) = 0.`

`nums[0] + nums[3] + nums[4] = (-1) + 2 + (-1) = 0.`

The distinct triplets are `[-1,0,1]` and `[-1,-1,2]`.

Notice that the order of the output and the order of the triplets does not matter.

Example 2:

Input: `nums = [0,1,1]`

Output: `[]`

Explanation: The only possible triplet does not sum up to 0.

Example 3:

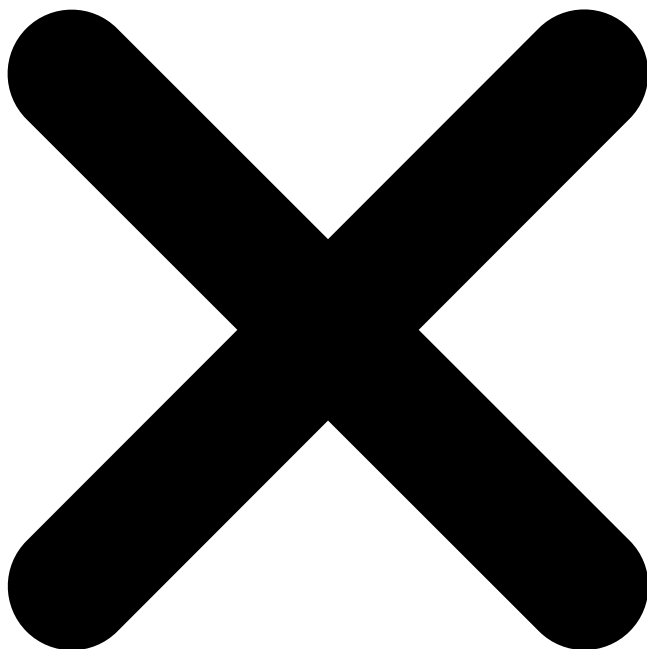
Input: `nums = [0,0,0]`

Output: `[[0,0,0]]`

Explanation: The only possible triplet sums up to 0.

Constraints:

- `3 <= nums.length <= 3000`
- `-105 <= nums[i] <= 105`



Seen this question in a real interview before?

1/5

Yes

No

Accepted

4.3M

Submissions

11.8M

Acceptance Rate

36.1%



Companies



Hint 1



So, we essentially need to find three numbers x , y , and z such that they add up to the given value. If we fix one of the numbers say x , we are left with the two-sum problem at hand!



Hint 2



For the two-sum problem, if we fix one of the numbers, say x , we have to scan the entire array to find the next number y , which is $\text{value} - x$ where value is the input parameter. Can we change our array somehow so that this search becomes faster?



Hint 3



The second train of thought for two-sum is, without changing the array, can we use additional space somehow? Like maybe a hash map to speed up the search?



Discussion (524)



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Discussion Rules



1. Please don't post **any solutions** in this discussion.
2. The problem discussion is for asking questions about the problem or for sharing tips - anything except for solutions.
3. If you'd like to share your solution for feedback and ideas, please head to the solutions tab and post it there.

No comments yet.

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445 Online

1

2

3

4

5

```
class Solution {  
    public List<List<Integer>> threeSum(int[] nums) {
```

```
    }
```

```
}
```



Saved

Ln 1, Col 1

```
nums =
```

```
[-1,0,1,2,-1,-4]
```

```
9
```

```
1
```

```
2
```

```
3
```

```
>
```

```
[-1,0,1,2,-1,-4]
```

```
[0,1,1]
```

```
[0,0,0]
```

```
</>
```

Source



FindHeaderBarSize

FindTabBarSize

FindBorderBarSize