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238. Product of Array Except Self

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Hint

Given an integer array nums, return an array answer such that answer[i] is equal to the product of all the elements of nums except nums[i].

The product of any prefix or suffix of nums is guaranteed to fit in a 32-bit integer.

You must write an algorithm that runs in O(n) time and without using the division operation.

Example 1:

```
Input: nums = [1,2,3,4]
Output: [24,12,8,6]
```

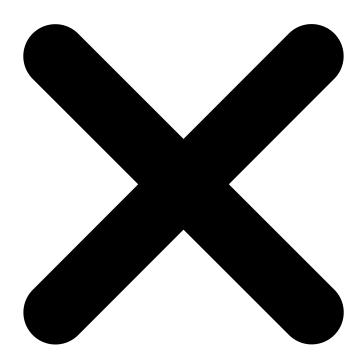
Example 2:

```
Input: nums = [-1,1,0,-3,3]
Output: [0,0,9,0,0]
```

Constraints:

- 2 <= nums.length <= 10^5
- -30 <= nums[i] <= 30
- The product of any prefix or suffix of nums is guaranteed to fit in a 32-bit integer.

Follow up: Can you solve the problem in O(1) extra space complexity? (The output array **does not** count as extra space for space complexity analysis.)



Seen this question in a real interview before?

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Yes

No

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Acceptance Rate

66.9%
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Hint 1
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Think how you can efficiently utilize prefix and suffix products to calculate the product of all elements except self for each index. Can you pre-compute the prefix and suffix products in linear time to avoid redundant calculations?
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Hint 2
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Can you minimize additional space usage by reusing memory or modifying the input array to store intermediate results?
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Discussion (357)
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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.

there. No comments yet. Copyright © 2024 LeetCode All rights reserved 1 2 3 4 5 class Solution { public int[] productExceptSelf(int[] nums) { } } Saved Ln 1, Col 1 nums = [1,2,3,4] 9 1 2

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[1,2,3,4]

[-1,1,0,-3,3]

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