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Product of Array Except Self - LeetCode

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LeetCode Coding Challenge + GIVEAWAY!

Description

Solution

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i

JavaAutocomplete*{}*

238. Product of Array Except Self

Medium

10139

648

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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:

- $2 \leq \text{nums.length} \leq 10^5$
- $-30 \leq \text{nums}[i] \leq 30$
- 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.)

Accepted

968,658

Submissions

1,535,694

Seen this question in a real interview before?

Yes

No

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class Solution {

public int[] productExceptSelf(int[] nums) {

}

}

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https://leetcode.com/problems/product-of-array-except-self/

1/1