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## 238. Product of Array Except Self

Medium	Topics	Comp	anies

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[:

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<sup>5</sup>
- -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 0(1) extra space complexity? (The output array does not count as extra space for space complex

Seen this question in a real interview before? 1/4

Yes No

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