## 238. Product of Array Except Self

Solved

Medium Topics Companies 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<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 O(1) extra space complexity? (The output array **does not** count as extra space for space complexity analysis.)