152. Maximum Product Subarray

Difficulty: Medium

https://leetcode.com/problems/maximum-product-subarray

Given an integer array nums, find a subarray that has the largest product, and return the product.

The test cases are generated so that the answer will fit in a **32-bit** integer.

Example 1:

Input: nums = [2, 3, -2, 4]

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Output: 6
Explanation: [2,3] has the largest product 6.

Example 2:

Input: nums = [-2,0,-1]
Output: 0
Explanation: The result cannot be 2, because [-2,-1] is not a subarray.
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Constraints:

- \bullet 1 <= nums.length <= 2 * 10 4
- -10 <= nums[i] <= 10
- The product of any prefix or suffix of nums is guaranteed to fit in a 32-bit integer.