1822. Sign of the Product of an Array

Hint

Easy 2K 194

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There is a function `signFunc(x)` that returns:

- `1` if `x` is positive.
- `-1` if `x` is negative.
- `0` if `x` is equal to `0`.

You are given an integer array `nums`. Let `product` be the product of all values in the array `nums`.

Return `signFunc(product)`.

Example 1:

```
Input: nums = [-1,-2,-3,-4,3,2,1]
Output: 1
Explanation: The product of all values in the array is 144, and signFunc(144) = 1
```

Example 2:

```
Input: nums = [1,5,0,2,-3]
Output: 0
Explanation: The product of all values in the array is 0, and signFunc(0) = 0
```

Example 3:

```
Input: nums = [-1,1,-1,1,-1]
Output: -1
Explanation: The product of all values in the array is -1, and signFunc(-1) = -1
```

Constraints:

- `1 <= nums.length <= 1000`
- `-100 <= nums[i] <= 100`

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After seeing this question, everyone would think of computing the product of array elements and then checking for sign.

But as it is the multiplication we are doing it would definitely go out of range

long, it would definitely go out of range and gives overflow error.

So multiplication is not the suitable solution. Actually we don't need to multiply the elements to see the sign. We can just count no. of negative elements are there in the array

if odd no. of negative elements
    then sign is negative
else
    sign is positive.