1822. Sign of the Product of an Array

Description

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`