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