

# 2149. Rearrange Array Elements by Sign

## Description

You are given a **0-indexed** integer array `nums` of **even** length consisting of an **equal** number of positive and negative integers.

You should **rearrange** the elements of `nums` such that the modified array follows the given conditions:

1. Every **consecutive pair** of integers have **opposite signs**.
2. For all integers with the same sign, the **order** in which they were present in `nums` is **preserved**.
3. The rearranged array begins with a positive integer.

Return *the modified array after rearranging the elements to satisfy the aforementioned conditions*.

### Example 1:

**Input:** `nums = [3,1,-2,-5,2,-4]`

**Output:** `[3,-2,1,-5,2,-4]`

**Explanation:**

The positive integers in `nums` are `[3,1,2]`. The negative integers are `[-2,-5,-4]`.

The only possible way to rearrange them such that they satisfy all conditions is `[3,-2,1,-5,2,-4]`.

Other ways such as `[1,-2,2,-5,3,-4]`, `[3,1,2,-2,-5,-4]`, `[-2,3,-5,1,-4,2]` are incorrect because they do not satisfy one or more conditions.

### Example 2:

**Input:** `nums = [-1,1]`

**Output:** `[1,-1]`

**Explanation:**

1 is the only positive integer and -1 the only negative integer in `nums`.

So `nums` is rearranged to `[1,-1]`.

### Constraints:

- `2 <= nums.length <= 2 * 105`
- `nums.length` is **even**
- `1 <= |nums[i]| <= 105`
- `nums` consists of **equal** number of positive and negative integers.

