Hint ⊙

2149. Rearrange Array Elements by Sign

 Medium
 ⚠ 1.3K
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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:

Every consecutive pair of integers have opposite signs.

For all integers with the same sign, the ${\bf order}$ in which they were present in ${\color{red} {\tt nums}}$ is ${\bf preserved}.$

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].

 $|arr(7)| = \{3, 1, -2, -5, 2, -4\}$ |rearrage| $|arr(7)| = \{3, -2, 1, -5, 2, -4\}$

$$(N(2)(+))$$

$$(N(2)(-)$$

So, N will be always be ever number

arr
$$T = \{3, 1, -2, -5, 2, -4\}$$

$$3 \Rightarrow + 4e \}$$

$$3 \Rightarrow -4e \}$$

$$+ - + -$$

$$+ - + -$$

$$+ - + -$$

$$+ - + -$$

$$+ - + -$$

$$+ - + -$$

$$+ - + -$$

Brute Jone

Brute Jone

(0 2 4) = even index

-Ve ekmork in the odd intex

$$for(i=0; i < n/2; i+t) \{$$

$$arr[2 \times i] = pos[i] \qquad T(\Rightarrow 0(N) + o(N))$$

$$arr[2 \times i + i] = neg[i] \qquad S(\Rightarrow 0)$$

2nd Approach

ars
$$CJ = \{3 - 2 \mid -5 \mid 2 - 4\}$$

0 | 2 | 3 | 4 | 5

1 | 9 | 7 | 7 | 7 | 7 | 7

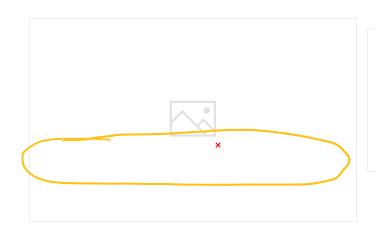
POJ - VE POS - VE POS - VE

Preform ars CJ

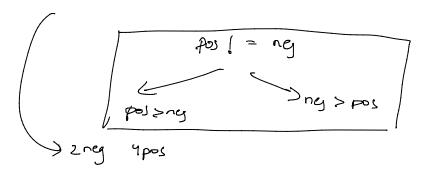
T() 0(N) S() 0(N)



2nd vairly problem:







$$pos C7 = \{2, 3, 4, 1\}$$

$$neg C7 = \{-1, -3\}$$



now so more pos one left