**[Rearrange Array Elements by Sign](https://leetcode.com/problems/rearrange-array-elements-by-sign/)**

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.

Code :

class Solution {

public:

    vector<int> rearrangeArray(vector<int>& nums) {

        vector<int>v1,v2,ans;

        for(int i =0;i<nums.size();i++){

            if(nums[i]>0)v1.push\_back(nums[i]);

            else v2.push\_back(nums[i]);

        }

        int ind1=0,ind2=0;

        while(ind2<nums.size()/2){

            ans.push\_back(v1[ind1]);

            ind1++;

            ans.push\_back(v2[ind2]);

            ind2++;

        }

        return ans;

    }

};

Link : <https://leetcode.com/problems/rearrange-array-elements-by-sign/?envType=daily-question&envId=2024-02-14>