

Problem 3467: Transform Array by Parity

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

You are given an integer array

`nums`

. Transform

`nums`

by performing the following operations in the

exact

order specified:

Replace each even number with 0.

Replace each odd numbers with 1.

Sort the modified array in

non-decreasing

order.

Return the resulting array after performing these operations.

Example 1:

Input:

nums = [4,3,2,1]

Output:

[0,0,1,1]

Explanation:

Replace the even numbers (4 and 2) with 0 and the odd numbers (3 and 1) with 1. Now,

nums = [0, 1, 0, 1]

.

After sorting

nums

in non-descending order,

nums = [0, 0, 1, 1]

.

Example 2:

Input:

nums = [1,5,1,4,2]

Output:

[0,0,1,1,1]

Explanation:

Replace the even numbers (4 and 2) with 0 and the odd numbers (1, 5 and 1) with 1. Now,

nums = [1, 1, 1, 0, 0]

.

After sorting

nums

in non-descending order,

nums = [0, 0, 1, 1, 1]

.

Constraints:

$1 \leq \text{nums.length} \leq 100$

$1 \leq \text{nums}[i] \leq 1000$

Code Snippets

C++:

```
class Solution {  
public:  
    vector<int> transformArray(vector<int>& nums) {  
  
    }  
};
```

Java:

```
class Solution {  
    public int[] transformArray(int[] nums) {  
  
    }  
}
```

```
}
```

Python3:

```
class Solution:
    def transformArray(self, nums: List[int]) -> List[int]:
```

Python:

```
class Solution(object):
    def transformArray(self, nums):
        """
        :type nums: List[int]
        :rtype: List[int]
        """
```

JavaScript:

```
/**
 * @param {number[]} nums
 * @return {number[]}
 */
var transformArray = function(nums) {

};
```

TypeScript:

```
function transformArray(nums: number[]): number[] {

};
```

C#:

```
public class Solution {
    public int[] TransformArray(int[] nums) {

    }
}
```

C:

```

/**
 * Note: The returned array must be malloced, assume caller calls free().
 */
int* transformArray(int* nums, int numsSize, int* returnSize) {

}

```

Go:

```

func transformArray(nums []int) []int {

}

```

Kotlin:

```

class Solution {
    fun transformArray(nums: IntArray): IntArray {

    }
}

```

Swift:

```

class Solution {
    func transformArray(_ nums: [Int]) -> [Int] {

    }
}

```

Rust:

```

impl Solution {
    pub fn transform_array(nums: Vec<i32>) -> Vec<i32> {

    }
}

```

Ruby:

```

# @param {Integer[]} nums
# @return {Integer[]}
def transform_array(nums)

```

```
end
```

PHP:

```
class Solution {  
  
    /**  
     * @param Integer[] $nums  
     * @return Integer[]  
     */  
    function transformArray($nums) {  
  
    }  
}
```

Dart:

```
class Solution {  
    List<int> transformArray(List<int> nums) {  
  
    }  
}
```

Scala:

```
object Solution {  
    def transformArray(nums: Array[Int]): Array[Int] = {  
  
    }  
}
```

Elixir:

```
defmodule Solution do  
    @spec transform_array(nums :: [integer]) :: [integer]  
    def transform_array(nums) do  
  
    end  
end
```

Erlang:

```
-spec transform_array(Nums :: [integer()]) -> [integer()].
transform_array(Nums) ->
.
```

Racket:

```
(define/contract (transform-array nums)
  (-> (listof exact-integer?) (listof exact-integer?))
)
```

Solutions

C++ Solution:

```
/*
 * Problem: Transform Array by Parity
 * Difficulty: Easy
 * Tags: array, sort
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(1) to O(n) depending on approach
 */

class Solution {
public:
    vector<int> transformArray(vector<int>& nums) {

    }
};
```

Java Solution:

```
/**
 * Problem: Transform Array by Parity
 * Difficulty: Easy
 * Tags: array, sort
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
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 */
```

```

*/

class Solution {
public int[] transformArray(int[] nums) {

}

}

```

Python3 Solution:

```

"""
Problem: Transform Array by Parity
Difficulty: Easy
Tags: array, sort

Approach: Use two pointers or sliding window technique
Time Complexity: O(n) or O(n log n)
Space Complexity: O(1) to O(n) depending on approach
"""

class Solution:
    def transformArray(self, nums: List[int]) -> List[int]:
        # TODO: Implement optimized solution
        pass

```

Python Solution:

```

class Solution(object):
    def transformArray(self, nums):
        """
        :type nums: List[int]
        :rtype: List[int]
        """

```

JavaScript Solution:

```

/**
 * Problem: Transform Array by Parity
 * Difficulty: Easy
 * Tags: array, sort
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```



```

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/**
 * @param {number[]} nums
 * @return {number[]}
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var transformArray = function(nums) {

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```

TypeScript Solution:

```

/**
 * Problem: Transform Array by Parity
 * Difficulty: Easy
 * Tags: array, sort
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 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
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 */

function transformArray(nums: number[]): number[] {

};

```

C# Solution:

```

/*
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 * Time Complexity: O(n) or O(n log n)
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 */

```

```

public class Solution {
    public int[] TransformArray(int[] nums) {

    }
}

```

C Solution:

```

/*
 * Problem: Transform Array by Parity
 * Difficulty: Easy
 * Tags: array, sort
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 * Approach: Use two pointers or sliding window technique
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/**
 * Note: The returned array must be malloced, assume caller calls free().
 */
int* transformArray(int* nums, int numsSize, int* returnSize) {

}

```

Go Solution:

```

// Problem: Transform Array by Parity
// Difficulty: Easy
// Tags: array, sort
//
// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)
// Space Complexity: O(1) to O(n) depending on approach

func transformArray(nums []int) []int {

}

```

Kotlin Solution:

```

class Solution {
    fun transformArray(nums: IntArray): IntArray {

    }
}

```

Swift Solution:

```

class Solution {
    func transformArray(_ nums: [Int]) -> [Int] {

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Rust Solution:

```

// Problem: Transform Array by Parity
// Difficulty: Easy
// Tags: array, sort
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// Time Complexity: O(n) or O(n log n)
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impl Solution {
    pub fn transform_array(nums: Vec<i32>) -> Vec<i32> {

    }
}

```

Ruby Solution:

```

# @param {Integer[]} nums
# @return {Integer[]}
def transform_array(nums)

end

```

PHP Solution:

```

class Solution {

```

```

/**
 * @param Integer[] $nums
 * @return Integer[]
 */
function transformArray($nums) {

}
}

```

Dart Solution:

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class Solution {
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Scala Solution:

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object Solution {
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defmodule Solution do
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