Problem 1390: Four Divisors

Problem Information

Difficulty: Medium
Acceptance Rate: 0.00%
Paid Only: No

Problem Description

Given an integer array

nums

, return

the sum of divisors of the integers in that array that have exactly four divisors

. If there is no such integer in the array, return

0

.

Example 1:

Input:

nums = [21,4,7]

Output:

32

Explanation:

21 has 4 divisors: 1, 3, 7, 21 4 has 3 divisors: 1, 2, 4 7 has 2 divisors: 1, 7 The answer is the sum of divisors of 21 only.

Example 2:

Input:

nums = [21,21]

Output:

64

Example 3:

Input:

nums = [1,2,3,4,5]

Output:

0

Constraints:

1 <= nums.length <= 10

4

1 <= nums[i] <= 10

5

Code Snippets

C++:

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

}
};
```

Java:

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

}
}
```

Python3:

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

Python:

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

JavaScript:

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

};
```

TypeScript:

```
function sumFourDivisors(nums: number[]): number {
};
```

C#:

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

}
}
```

C:

```
int sumFourDivisors(int* nums, int numsSize) {

}
```

Go:

```
func sumFourDivisors(nums []int) int {

}
```

Kotlin:

```
class Solution {
fun sumFourDivisors(nums: IntArray): Int {

}
}
```

Swift:

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

}
}
```

Rust:

```
impl Solution {
pub fn sum_four_divisors(nums: Vec<i32>) -> i32 {
}
}
```

Ruby:

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

end
```

PHP:

```
class Solution {

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

}
}
```

Dart:

```
class Solution {
int sumFourDivisors(List<int> nums) {

}
}
```

Scala:

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

}
}
```

Elixir:

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

end
end
```

Erlang:

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

Racket:

```
(define/contract (sum-four-divisors nums)
(-> (listof exact-integer?) exact-integer?)
)
```

Solutions

C++ Solution:

```
/*
* Problem: Four Divisors
* Difficulty: Medium
* Tags: array, math
*
* 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:
int sumFourDivisors(vector<int>& nums) {

}
};
```

Java Solution:

```
/**
* Problem: Four Divisors
* Difficulty: Medium
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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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*/

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

}
}
```

Python3 Solution:

```
"""
Problem: Four Divisors
Difficulty: Medium
Tags: array, math

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 sumFourDivisors(self, nums: List[int]) -> int:
# TODO: Implement optimized solution
pass
```

Python Solution:

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

JavaScript Solution:

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

};
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C# Solution:

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* Problem: Four Divisors
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```
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public class Solution {
public int SumFourDivisors(int[] nums) {

}
}
```

C Solution:

```
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*/

int sumFourDivisors(int* nums, int numsSize) {

}
```

Go Solution:

```
// Problem: Four Divisors
// Difficulty: Medium
// Tags: array, math
//
// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)
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func sumFourDivisors(nums []int) int {

}
```

Kotlin Solution:

```
class Solution {
fun sumFourDivisors(nums: IntArray): Int {

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

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

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Ruby Solution:

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

end
```

PHP Solution:

```
class Solution {

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

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Dart Solution:

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