Problem 747: Largest Number At Least Twice of Others

Problem Information

Difficulty: Easy
Acceptance Rate: 51.63%
Paid Only: No
Tags: Array, Sorting

Problem Description

You are given an integer array `nums` where the largest integer is **unique**.

Determine whether the largest element in the array is **at least twice** as much as every other number in the array. If it is, return _the**index** of the largest element, or return _`-1` _otherwise_.

Example 1:

Input: nums = [3,6,1,0] **Output:** 1 **Explanation:** 6 is the largest integer. For every other number in the array x, 6 is at least twice as big as x. The index of value 6 is 1, so we return 1.

Example 2:

Input: nums = [1,2,3,4] **Output:** -1 **Explanation:** 4 is less than twice the value of 3, so we return -1.

Constraints:

* `2 <= nums.length <= 50` * `0 <= nums[i] <= 100` * The largest element in `nums` is unique.

Code Snippets

C++:

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

}
};
```

Java:

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

}
}
```

Python3:

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