6367. Find the Maximum Number of Marked Indices

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Difficulty:	Medium

You are given a **0-indexed** integer array `nums`.

Initially, all of the indices are unmarked. You are allowed to make this operation any number of times:

- Pick two **different unmarked** indices `i` and `j` such that `2 * nums[i] <= nums[j]`, then mark `i` and `j`.

Return *the maximum possible number of marked indices in `nums` using the above operation any number of times*.

Example 1:

```
Input: nums = [3,5,2,4]
Output: 2
Explanation: In the first operation: pick i = 2 and j = 1, the operation is allowed because 2 * nums[2] <= nums[1]. Then mar
It can be shown that there's no other valid operation so the answer is 2.
```

Example 2:

```
Input: nums = [9,2,5,4]
Output: 4
Explanation: In the first operation: pick i = 3 and j = 0, the operation is allowed because 2 * nums[3] <= nums[0]. Then mar
In the second operation: pick i = 1 and j = 2, the operation is allowed because 2 * nums[1] <= nums[2]. Then mark index 1 ar
Since there is no other operation, the answer is 4.
```

Example 3:

```
Input: nums = [7,6,8]
Output: 0
Explanation: There is no valid operation to do, so the answer is 0.
```

Constraints:

- `1 <= nums.length <= 10^5`
- `1 <= nums[i] <= 10^9`

JavaScript

```
const maxNumOfMarkedIndices = (a) => {
    a.sort((x, y) => x - y);
    let n = a.length, j = n - 1, res = 0;
    for (let i = (n >> 1) - 1; i >= 0; i--) {
        if (a[i] * 2 <= a[j]) {
            res += 2;
            j--;
        }
    }
    return res;
};
```

Custom Testcase Use Example Testcases

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