# 2501. Longest Square Streak in an Array

## Description

You are given an integer array nums. A subsequence of nums is called a square streak if:

- The length of the subsequence is at least 2, and
- after sorting the subsequence, each element (except the first element) is the square of the previous number.

Return the length of the longest square streak in nums, or return -1 if there is no square streak.

A subsequence is an array that can be derived from another array by deleting some or no elements without changing the order of the remaining elements.

#### Example 1:

```
Input: nums = [4,3,6,16,8,2]
Output: 3
Explanation: Choose the subsequence [4,16,2]. After sorting it, it becomes [2,4,16].
- 4 = 2 * 2.
- 16 = 4 * 4.
Therefore, [4,16,2] is a square streak.
It can be shown that every subsequence of length 4 is not a square streak.
```

#### Example 2:

```
Input: nums = [2,3,5,6,7]
Output: -1
Explanation: There is no square streak in nums so return -1.
```

### **Constraints:**

- 2 <= nums.length <= 10 <sup>5</sup>
- $2 \leftarrow nums[i] \leftarrow 10^5$