2586. Longest Square Streak in an Array

Difficulty : Medium

https://leetcode.com/problems/longest-square-streak-in-an-array

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 <= 10^5`
- `2 <= nums[i] <= 10^5`