2708. Maximum Strength of a Group

Description

You are given a **0-indexed** integer array `nums` representing the score of students in an exam. The teacher would like to form one **non-empty** group of students with maximal **strength**, where the strength of a group of students of indices i_0, i_1, i_2, ..., i_k is defined as `nums[i₀] * nums[i₁] * nums[i₂] * ... * nums[iₖ]`.

Return *the maximum strength of a group the teacher can create*.

Example 1:

```
Input: nums = [3,-1,-5,2,5,-9]
Output: 1350
Explanation: One way to form a group of maximal strength is to group the students at indices [0,2,3,4,5]. Their strength is 3 * (-5) * 2 * 5 * (-9) = 1350, which we can show is optimal.
```

Example 2:

```
Input: nums = [-4,-5,-4]
Output: 20
Explanation: Group the students at indices [0, 1] . Then, we'll have a resulting strength of 20. We cannot achieve greater strength.
```

Constraints:

- `1 <= nums.length <= 13`
- `-9 <= nums[i] <= 9`