**Product of array elements**

Given array ***A*** consisting of *n* integers *ai*. Tuan wants to remove at most 1 element in array A so that the product of all remaining elements in that array is the largest. Please help Tuan do it!

You task is to calculate the product of all remaining elements in that array after removed at most 1 element.

**Input:**

- The first line contains a positive integer *n* (2 ≤ *n* ≤ 1000).

- Next line contains *n* integers *ai* separated by a space ( -109 ≤ *ai* ≤ 109).

**Output:**

- Print the result of the problem. Since it may be too big, print it after taking modulo 109+7.

**Sample:**

|  |  |
| --- | --- |
| **Input** | **Output** |
| 4  4 2 3 5 | 120 |
| 5  -1 -2 -4 1 2 | 16 |

**Explanation Example 1:**

* Without dropping any elements, the product of 4 elements is 4 × 2 × 3 × 5 = 120.

**Explanation Example 2:**

* Remove -1, the product of the remaining 4 elements is -2 × (-4) × 1 × 2 = 16