414. Third Maximum Number

Given an integer array nums, return the third distinct maximum number in this array. If the third maximum does not exist, return the maximum number.

Example 1:

- **Input:** nums = [3,2,1]
- Output: 1
- Explanation:
 - ♣ The first distinct maximum is 3.
 - **♣** The second distinct maximum is 2.
 - **♣** The third distinct maximum is 1.

Example 2:

- **Input:** nums = [1,2]
- **Output:** 2
- Explanation:
 - **♣** The first distinct maximum is 2.
 - **♣** The second distinct maximum is 1.
 - ♣ The third distinct maximum does not exist, so the maximum (2) is returned instead.

Example 3:

- **Input:** nums = [2,2,3,1]
- **Output:** 1
- Explanation:
 - ♣ The first distinct maximum is 3.
 - ♣ The second distinct maximum is 2 (both 2's are counted together since they have the same value).
 - ♣ The third distinct maximum is 1.

Constraints:

- $1 \le \text{nums.length} \le 10^4$
- $-2^{31} \le nums[i] \le 2^{31} 1$

Follow up: Can you find an O(n) solution?