2568. Minimum Impossible OR

Description

You are given a **0-indexed** integer array `nums`.

We say that an integer x is **expressible** from `nums` if there exist some integers $0 \leq index_1 < index_2 < \ldots < index_k < nums.length$ for which `nums[index` $_1$ `] | nums[index` $_2$ `] | ... | nums[index` $_k$ `] = x`. In other words, an integer is expressible if it can be written as the bitwise OR of some subsequence of `nums`.

Return *the minimum* ***positive non-zero integer*** *that is not* *expressible from* `nums`.

Example 1:

```
Input: nums = [2,1]
Output: 4
Explanation: 1 and 2 are already present in the array. We know that 3 is expressible, since nums[0] | nums[1] = 2 | 1 = 3. Since 4 is not expressible, we return 4.
```

Example 2:

```
Input: nums = [5,3,2]
Output: 1
Explanation: We can show that 1 is the smallest number that is not expressible.
```

Constraints:

- $1 \leq nums.length \leq 10^5$
- $1 \leq nums[i] \leq 10^9$