934. Bitwise ORs of Subarrays

Difficulty: Medium

https://leetcode.com/problems/bitwise-ors-of-subarrays

Given an integer array arr, return the number of distinct bitwise ORs of all the non-empty subarrays of arr.

The bitwise OR of a subarray is the bitwise OR of each integer in the subarray. The bitwise OR of a subarray of one integer is that integer.

A **subarray** is a contiguous non-empty sequence of elements within an array.

Example 1:

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Input: arr = [0]
Output: 1
Explanation: There is only one possible result: 0.

Example 2:

Input: arr = [1,1,2]
Output: 3
Explanation: The possible subarrays are [1], [1], [2], [1, 1], [1, 2], [1, 1, 2].
These yield the results 1, 1, 2, 1, 3, 3.
There are 3 unique values, so the answer is 3.

Example 3:
Input: arr = [1,2,4]
```

Explanation: The possible results are 1, 2, 3, 4, 6, and 7.

Constraints:

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• 1 <= arr.length <= 5 * 10<sup>4</sup>
• 0 <= arr[i] <= 10<sup>9</sup>
```