

2419. Longest Subarray With Maximum Bitwise AND

Solved ●

Medium  Topics  Companies  Hint

You are given an integer array `nums` of size `n`.

Consider a **non-empty** subarray from `nums` that has the **maximum** possible **bitwise AND**.

- In other words, let `k` be the maximum value of the bitwise AND of **any** subarray of `nums`. Then, only subarrays with a bitwise AND equal to `k` should be considered.

Return *the length of the **longest** such subarray*.

The bitwise AND of an array is the bitwise AND of all the numbers in it.

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

Example 1:

Input: `nums = [1,2,3,3,2,2]`

Output: 2

Explanation:

The maximum possible bitwise AND of a subarray is 3.

The longest subarray with that value is [3,3], so we return 2.

Example 2:

Input: `nums = [1,2,3,4]`

Output: 1

Explanation:

The maximum possible bitwise AND of a subarray is 4.

The longest subarray with that value is [4], so we return 1.

Constraints:

- `1 <= nums.length <= 105`
- `1 <= nums[i] <= 106`

Seen this question in a real interview before? 1/5

Yes No

Accepted 88.7K Submissions 150.5K Acceptance Rate 58.9%

Topics

Companies

Hint 1

Hint 2

Similar Questions

Discussion (124)