2530. Minimize Maximum of Array

Difficulty: Medium

https://leetcode.com/problems/minimize-maximum-of-array

You are given a **0-indexed** array nums comprising of n non-negative integers.

In one operation, you must:

- Choose an integer i such that 1 <= i < n and nums[i] > 0.
- Decrease nums[i] by 1.
- Increase nums[i 1] by 1.

Return the **minimum** possible value of the **maximum** integer of nums after performing **any** number of operations.

Example 1:

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Input: nums = [3,7,1,6]
Output: 5
Explanation:
One set of optimal operations is as follows:
1. Choose i = 1, and nums becomes [4,6,1,6].
2. Choose i = 3, and nums becomes [4,6,2,5].
3. Choose i = 1, and nums becomes [5,5,2,5].
The maximum integer of nums is 5. It can be shown that the maximum number cannot be less than 5.
Therefore, we return 5.

Example 2:
Input: nums = [10,1]
Output: 10
Explanation:
It is optimal to leave nums as is, and since 10 is the maximum value, we return 10.
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Constraints:

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    n == nums.length
    2 <= n <= 10<sup>5</sup>
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• $0 <= nums[i] <= 10^9$