2530. Maximal Score After Applying K Operations

Solved •

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You are given a **0-indexed** integer array nums and an integer k. You have a **starting score** of 0.

In one operation:

- 1. choose an index | i | such that | 0 <= i < nums.length |
- 2. increase your **score** by nums[i], and
- 3. replace nums[i] with ceil(nums[i] / 3).

Return the maximum possible **score** you can attain after applying **exactly** k operations.

The ceiling function ceil(val) is the least integer greater than or equal to val.

Example 1:

Input: nums = [10,10,10,10,10], k = 5

Output: 50

Explanation: Apply the operation to each array element exactly once. The final score is 10 + 10 + 10 + 10 + 10 = 50.

Example 2:

Input: nums = [1,10,3,3,3], k = 3

Output: 17

Explanation: You can do the following operations:

Operation 1: Select i = 1, so nums becomes $[1,\underline{4},3,3,3]$. Your score increases by 10. Operation 2: Select i = 1, so nums becomes $[1,\underline{2},3,3,3]$. Your score increases by 4. Operation 3: Select i = 2, so nums becomes $[1,1,\underline{1},3,3]$. Your score increases by 3.

The final score is 10 + 4 + 3 = 17.

Constraints:

- 1 <= nums.length, k <= 10⁵
- 1 <= nums[i] <= 10⁹

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