

Final Array State After K Multiplication Operations I - LeetCode

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3264. Final Array State After K Multiplication Operations I

You are given an integer array `nums`, an integer `k`, and an integer `multiplier`.

You need to perform `k` operations on `nums`. In each operation:

- Find the **minimum** value `x` in `nums`. If there are multiple occurrences of the minimum value, select the one that appears **first**.
- Replace the selected minimum value `x` with `x * multiplier`.

Return an integer array denoting the *final state* of `nums` after performing all `k` operations.

Example 1:

Input: `nums = [2,1,3,5,6]`, `k = 5`, `multiplier = 2`

Output: `[8,4,6,5,6]`

Explanation:

Operation	Result
After operation 1	[2, 2, 3, 5, 6]
After operation 2	[4, 2, 3, 5, 6]
After operation 3	[4, 4, 3, 5, 6]
After operation 4	[4, 4, 6, 5, 6]
After operation 5	[8, 4, 6, 5, 6]

Example 2:

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

Output: `[16,8]`

Explanation:

Operation	Result
After operation 1	[4, 2]
After operation 2	[4, 8]
After operation 3	[16, 8]

Constraints:

- `1 <= nums.length <= 100`
- `1 <= nums[i] <= 100`
- `1 <= k <= 10`
- `1 <= multiplier <= 5`

