

2154. Keep Multiplying Found Values by Two

Description

You are given an array of integers `nums`. You are also given an integer `original` which is the first number that needs to be searched for in `nums`.

You then do the following steps:

1. If `original` is found in `nums`, **multiply** it by two (i.e., set `original = 2 * original`).
2. Otherwise, **stop** the process.
3. **Repeat** this process with the new number as long as you keep finding the number.

Return *the final value of* `original`.

Example 1:

Input: `nums = [5,3,6,1,12]`, `original = 3`

Output: 24

Explanation:

- 3 is found in `nums`. 3 is multiplied by 2 to obtain 6.
- 6 is found in `nums`. 6 is multiplied by 2 to obtain 12.
- 12 is found in `nums`. 12 is multiplied by 2 to obtain 24.
- 24 is not found in `nums`. Thus, 24 is returned.

Example 2:

Input: `nums = [2,7,9]`, `original = 4`

Output: 4

Explanation:

- 4 is not found in `nums`. Thus, 4 is returned.

Constraints:

- `1 <= nums.length <= 1000`
- `1 <= nums[i], original <= 1000`

