

2022. Convert 1D Array Into 2D Array

Solved ●

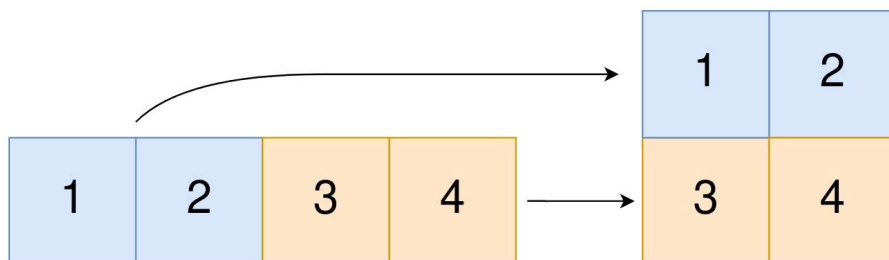
Easy Topics Companies Hint

You are given a **0-indexed** 1-dimensional (1D) integer array `original`, and two integers, `m` and `n`. You are tasked with creating a 2-dimensional (2D) array with `m` rows and `n` columns using **all** the elements from `original`.

The elements from indices `0` to `n - 1` (**inclusive**) of `original` should form the first row of the constructed 2D array, the elements from indices `n` to `2 * n - 1` (**inclusive**) should form the second row of the constructed 2D array, and so on.

Return an `m x n` 2D array constructed according to the above procedure, or an empty 2D array if it is impossible.

Example 1:

**Input:** `original = [1,2,3,4]`, `m = 2`, `n = 2`**Output:** `[[1,2],[3,4]]`**Explanation:** The constructed 2D array should contain 2 rows and 2 columns.The first group of `n=2` elements in `original`, `[1,2]`, becomes the first row in the constructed 2D array.The second group of `n=2` elements in `original`, `[3,4]`, becomes the second row in the constructed 2D array.

Example 2:

Input: `original = [1,2,3]`, `m = 1`, `n = 3`**Output:** `[[1,2,3]]`**Explanation:** The constructed 2D array should contain 1 row and 3 columns.Put all three elements in `original` into the first row of the constructed 2D array.

Example 3:

Input: `original = [1,2]`, `m = 1`, `n = 1`**Output:** `[]`**Explanation:** There are 2 elements in `original`.It is impossible to fit 2 elements in a `1x1` 2D array, so return an empty 2D array.

Constraints:

- `1 <= original.length <= 5 * 104`
- `1 <= original[i] <= 105`
- `1 <= m, n <= 4 * 104`

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

Yes No

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