

5871. Convert 1D Array Into 2D Array

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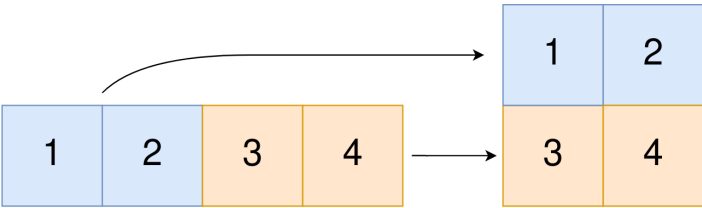
You are given a **0-indexed** 1-dimensional (1D) integer array `original`, and two integers, `m` and `n`. You are tasked with creating a 2-dimensional (2D) array with `m` rows and `n` columns using **all** the elements from `original`.

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.

User Accepted:	1460
User Tried:	1729
Total Accepted:	1464
Total Submissions:	2053
Difficulty:	Easy

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.

Example 4:

Input: `original = [3]`, `m = 1`, `n = 2`
Output: `[]`
Explanation:
There is 1 element in `original`.
It is impossible to make 1 element fill all the spots in a `1x2` 2D array, so return an empty 2D array.

Constraints:

- `1 <= original.length <= 5 * 104`

- $1 \leq \text{original}[i] \leq 10^5$
- $1 \leq m, n \leq 4 * 10^4$

JavaScript



```
1 /**
2  * @param {number[]} original
3  * @param {number} m
4  * @param {number} n
5  * @return {number[][]}
6  */
7 var construct2DArray = function(original, m, n) {
8
9  };
```

☐ Custom Testcase☒ Use Example Testcases

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