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ref=nb npl)





5871. Convert 1D Array Into 2D Array

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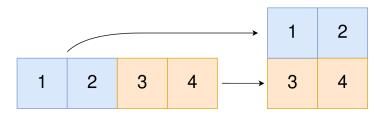
You are given a O-indexed 1-dimensional (1D) integer array original, and two integers, m and n. You are tasked with creating a 2-dimensional (2D) array with m rows and n columns using all the elements from original.

The elements from indices \emptyset 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 <= $5 * 10^4$

• 1 <= original[i] <= 10⁵ • 1 <= m, n <= 4 * 10⁴

United States (/region)

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JavaScript
                                                                                                                          Ø
  1 \cdot \text{const construct2DArray} = (a, m, n) \Rightarrow \{
  2
          let an = a.length;
  3
           if (m * n != an) return [];
          let res = [];
  4
  5 •
           for (let i = 0; i < m; i++) {
               let tmp = [];
  6
  7 ▼
               for (let j = 0; j < n; j++) {
  8
                    tmp.push(a.shift());
  9
 10
               res.push(tmp);
 11
 12
          return res;
 13
      };
☐ Custom Testcase
                       Use Example Testcases
                                                                                                                      Run
                                                                                                                                 Submission Result: Accepted (/submissions/detail/564516138/) ?
                                                                                More Details > (/submissions/detail/564516138/)
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