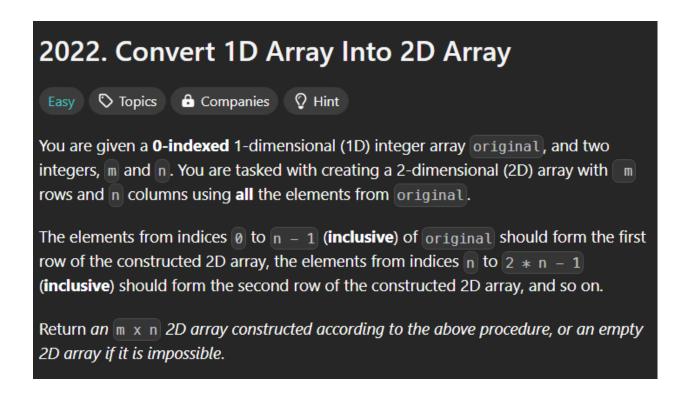
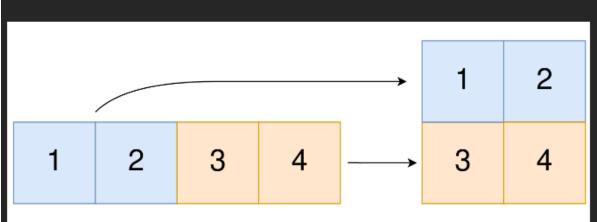
## 2022. Convert 1D Array Into 2D Array - 01/09/24 - (Easy)







**Input:** original = [1,2,3,4], m = 2, n = 2

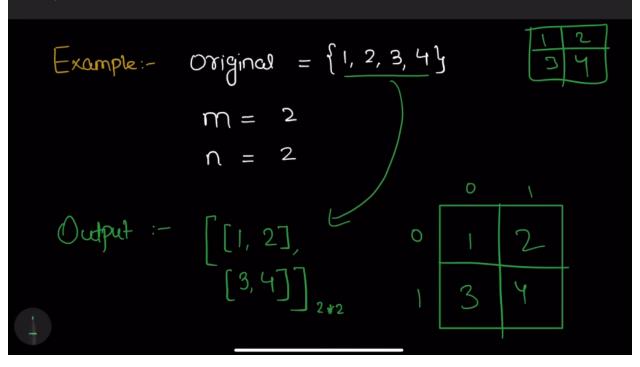
**Output:** [[1,2],[3,4]]

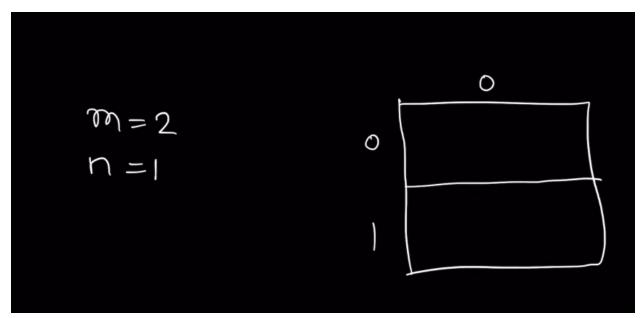
**Explanation:** The constructed 2D array should contain 2 rows and 2 columns.

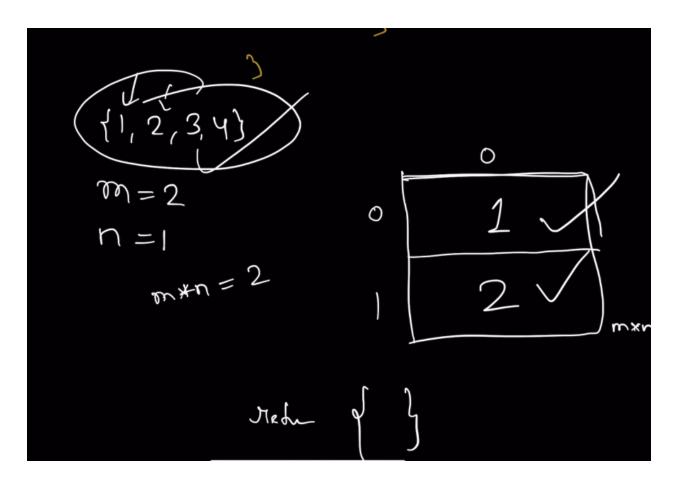
The first group of n=2 elements in original, [1,2], becomes the first row in the constructed 2D array.

The second group of n=2 elements in original, [3,4], becomes the second row in the constructed 2D array.

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

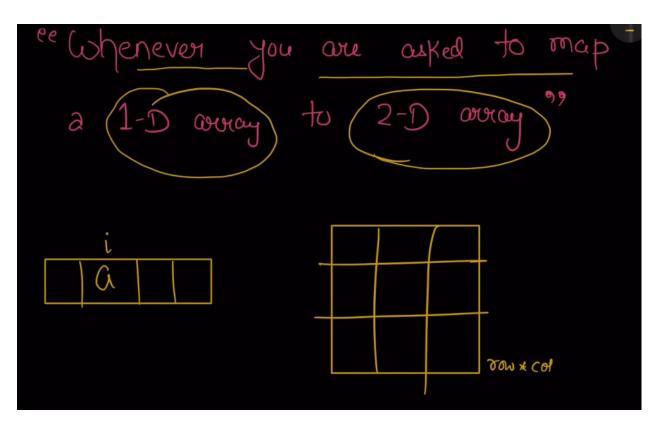


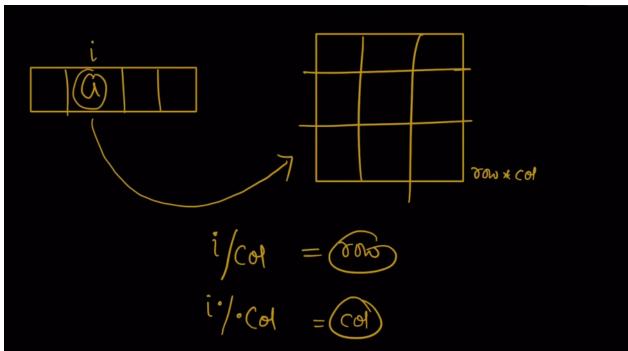


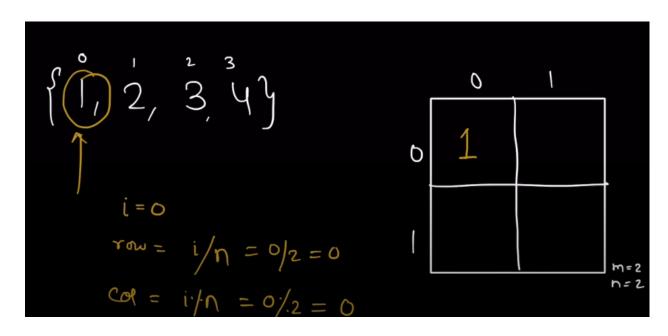


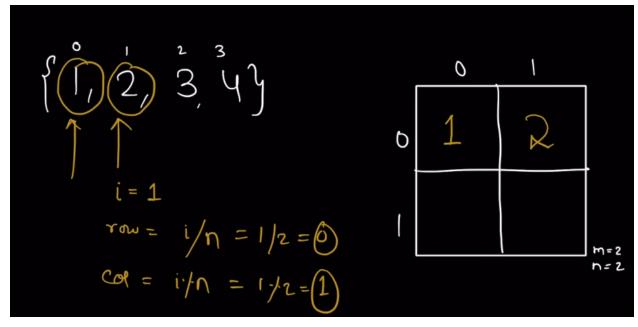
here we have 4 element and only 2 array to fill then just return {} empty array

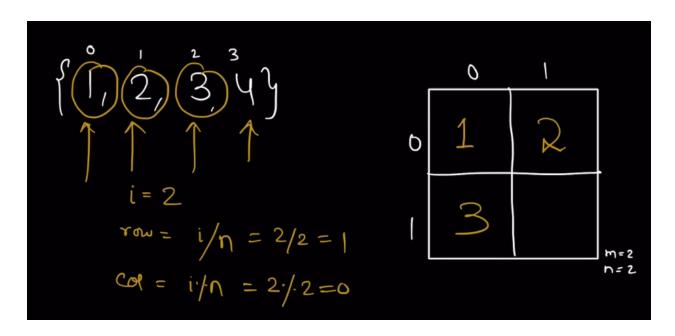
Approach 2

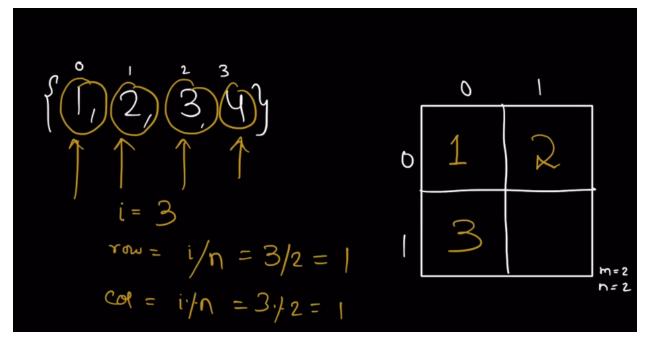












```
for (int i =0; ix originizer); i++) {

row = i/n;

con = i/n;

result [row] [col] = orig[i];
```

 $T.C \rightarrow O(mxn)$ 

```
class Solution {
public:
    vector<vector<int>> construct2DArray(vector<int>& origina
1, int m, int n) {
        int idx = 0;
        vector<vector<int>> arr(m, vector<int> (n));
        if(original.size() != (m*n)){
            return {};
        }
        for(int i=0;i<original.size();i++){</pre>
            int row = i/n;
            int col = i\%n;
            arr[row][col] = original[i];
        return arr;
    }
};
```