

Description

Solution

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Submissions

C++

566. Reshape the Matrix

Easy

2455

279

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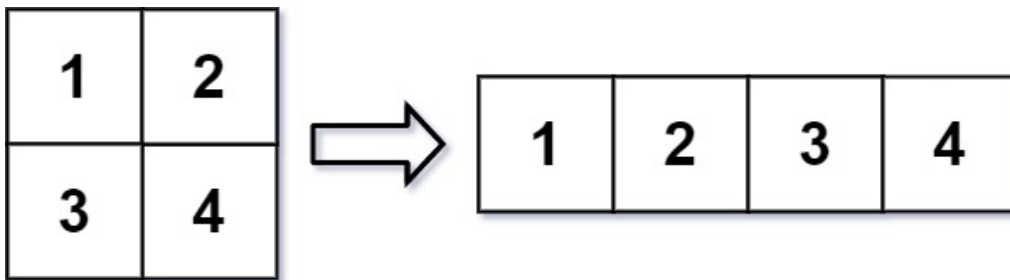
In MATLAB, there is a handy function called `reshape` which can reshape an $m \times n$ matrix into a new one with a different size $r \times c$ keeping its original data.

You are given an $m \times n$ matrix `mat` and two integers `r` and `c` representing the number of rows and the number of columns of the wanted reshaped matrix.

The reshaped matrix should be filled with all the elements of the original matrix in the same row-traversing order as they were.

If the `reshape` operation with given parameters is possible and legal, output the new reshaped matrix; Otherwise, output the original matrix.

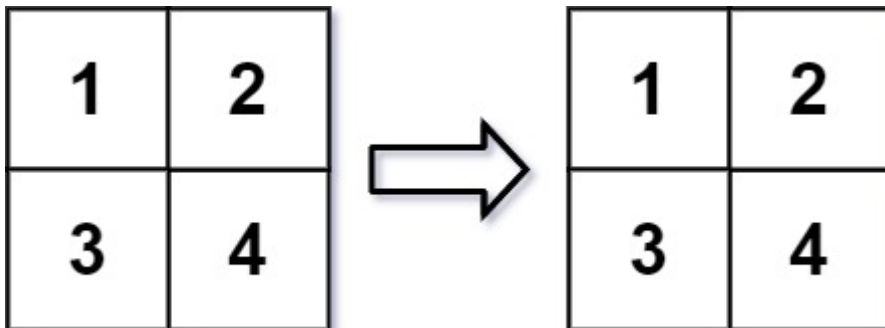
Example 1:



Input: `mat = [[1,2],[3,4]]`, `r = 1`, `c = 4`

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

Example 2:



Input: `mat = [[1,2],[3,4]]`, `r = 2`, `c = 4`

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

```

1  class Solution
2  public:
3      vector<vector<int>>
matrixReshape
>& mat, int
4      int
5      if(
6
7      }
8
9      int
10     if(
11
12     }
13
14     int
15     int
16     if(
17
18     }
19     vec
ans(r, vect
20
21     int
22     int
23     for
24
j++){
25
mat[k][l];
26
27
28
29
30
31     }
32     ret
33     }
34     };

```

Testcase

Run Code Re

Accepted

Runti

Your input

[[1
1

Output

[[1

Expected

[[1

Problems

Pick One

Prev

566/2338

Next >

Example
cases

?

Run C