





Transpose and Flatten *

Problem Submissions Leaderboard Editorial 🖰

Transpose

We can generate the transposition of an array using the tool numpy.transpose.

It will not affect the original array, but it will create a new array.

Flatten

The tool flatten creates a copy of the input array flattened to one dimension.

Task

You are given a $\mathbf{N} \times \mathbf{M}$ integer array matrix with space separated elements (\mathbf{N} = rows and \mathbf{M} = columns).

Your task is to print the transpose and flatten results.

Input Format

The first line contains the space separated values of \boldsymbol{N} and \boldsymbol{M} .

The next ${\pmb N}$ lines contains the space separated elements of ${\pmb M}$ columns.

Output Format

First, print the transpose array and then print the flatten.

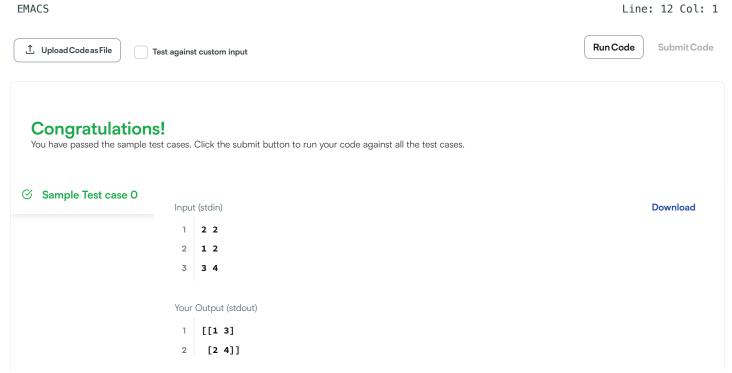
Sample Input

- 2 2
- 1 2
- 3 4

Sample Output

[[1 3] [2 4]] [1 2 3 4]

```
3
                                                 Change Theme Language Python 3
1
    import numpy
2
3
    n, m = map(int, input().split())
4
    for _ in range(n):
        arr.append(list(map(int, input().split())))
6
8
    arr = numpy.array(arr)
    print(numpy.transpose(arr))
9
10
    print(arr.flatten())
11
12
```



3 [1 2 3 4]

Expected Output Download

1 [[1 3]

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