



Concatenate ★

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Concatenate

Two or more arrays can be concatenated together using the concatenate function with a tuple of the arrays to be joined:

```
import numpy

array_1 = numpy.array([1,2,3])
array_2 = numpy.array([4,5,6])
array_3 = numpy.array([7,8,9])

print numpy.concatenate((array_1, array_2, array_3))

#Output
[1 2 3 4 5 6 7 8 9]
```

If an array has more than one dimension, it is possible to specify the axis along which multiple arrays are concatenated. By default, it is along the first dimension.

```
import numpy

array_1 = numpy.array([[1,2,3],[0,0,0]])
array_2 = numpy.array([[0,0,0],[7,8,9]])

print numpy.concatenate((array_1, array_2), axis = 1)

#Output
[[1 2 3 0 0 0]
 [0 0 0 7 8 9]]
```

Task

You are given two integer arrays of size $N \times P$ and $M \times P$ (N & M are rows, and P is the column). Your task is to concatenate the arrays along axis 0 .

Input Format

The first line contains space separated integers N , M and P .

The next N lines contains the space separated elements of the P columns.

After that, the next M lines contains the space separated elements of the P columns.

Output Format

Print the concatenated array of size $(N + M) \times P$.

Sample Input

```
4 3 2
1 2
1 2
1 2
1 2
3 4
```

3 4
3 4

Sample Output

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

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Language

Python 3



```
1  import numpy
2
3
4  n, m, p = map(int, input().split())
5  arr1,arr2 = [], []
6  for _ in range(n):
7      arr1.append(list(map(int, input().split())))
8  for _ in range(m):
9      arr2.append(list(map(int, input().split())))
10
11  a1 = numpy.array(arr1)
12  a2 = numpy.array(arr2)
13  a = numpy.concatenate((a1, a2))
14  print(a)
15
```

EMACS

Line: 15 Col: 1



Upload Code as File



Test against custom input

Run Code

Submit Code

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104/115 challenges solved.

90%



Congratulations

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Next Challenge

✓ Test case 0

Compiler Message

✓ Test case 1

Success

✓ Test case 2

Input (stdin)

Download

1	4 3 2
2	1 2
3	1 2
4	1 2
5	1 2
6	3 4
7	3 4
8	3 4