



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]]
```

Change Theme

Python 3



```
1 import numpy as np
2
3 if __name__ == '__main__':
4     n, m, p = tuple(map(int, input().split()))
5
6     matrix_1 = []
7     matrix_2 = []
8
9     for _ in range(n):
10         matrix_1.append(list(map(int, input().split())))
11
12     for _ in range(m):
13         matrix_2.append(list(map(int, input().split())))
14
15     matrix_3 = np.concatenate((matrix_1, matrix_2))
16     print(matrix_3)
17
18
```

Line: 18 Col: 1

☒ Upload Code as File ☐ Test against custom input

Run Code

Submit Code

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57%

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✔ Test case 0

✔ Test case 1

✔ Test case 2

Compiler Message

Success

Input (stdin)

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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