

Problem Submissions Leaderboard Editorial 🖰

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 $M \times P$ ($N \otimes M$ 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 ${\pmb N}, {\pmb M}$ and ${\pmb P}.$

The next $m{N}$ lines contains the space separated elements of the $m{P}$ columns.

After that, the next $m{M}$ lines contains the space separated elements of the $m{P}$ 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
- 2 4

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Sample Output

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

14

15

print(a)

```
50 8 :
                                                   Change Theme Language Python 3
1
    import numpy
2
3
4
    n, m, p = map(int, input().split())
    arr1,arr2 = [], []
5
    for _ in range(n):
6
7
        arr1.append(list(map(int, input().split())))
    for _ in range(m):
8
9
        arr2.append(list(map(int, input().split())))
10
    a1 = numpy.array(arr1)
11
12
    a2 = numpy.array(arr2)
13
    a = numpy.concatenate((a1, a2))
```

EMACS

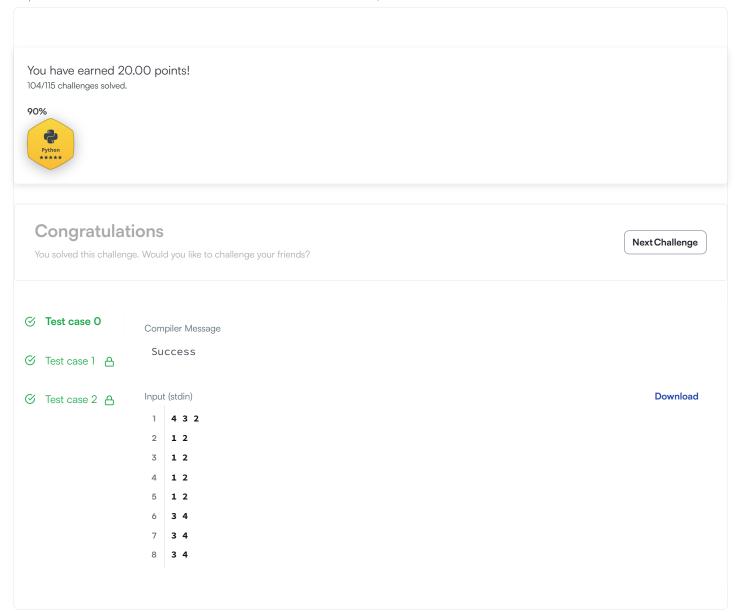
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