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Dot and Cross ★

You have successfully solved Dot and Cross

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Problem

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dot

The dot tool returns the dot product of two arrays.

```
import numpy

A = numpy.array([ 1, 2 ])
B = numpy.array([ 3, 4 ])

print numpy.dot(A, B)    #Output : 11
```

cross

The cross tool returns the cross product of two arrays.

```
import numpy

A = numpy.array([ 1, 2 ])
B = numpy.array([ 3, 4 ])

print numpy.cross(A, B)    #Output : -2
```

Task

You are given two arrays **A** and **B**. Both have dimensions of $N \times N$.

Your task is to compute their [matrix product](#).

Input Format

The first line contains the integer **N**.

The next **N** lines contains **N** space separated integers of array **A**.

The following **N** lines contains **N** space separated integers of array **B**.

Output Format

Print the matrix multiplication of **A** and **B**.

Sample Input

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

Sample Output

```
[[ 7 10]
 [15 22]]
```

Change Theme Language Pypy 3



```
1 # Link = https://www.hackerrank.com/challenges/np-dot-and-cross/problem
2
3 import numpy
4
5 first_array = []
6 second_array = []
7
8 array_row_size = int(input())
9
10 for i in range(array_row_size):
11     first_array.append(list(map(int, input().split(" "))))
12
13 for i in range(array_row_size):
14     second_array.append(list(map(int, input().split(" "))))
15
16 A = numpy.array(first_array)
17 B = numpy.array(second_array)
18
19 result = numpy.dot(A, B)
20
21 print(result)
22
```

Line: 22 Col: 1

Upload Code as File

☐ Test against custom input

Run Code

Submit Code

Congratulations

You solved this challenge. Would you like to challenge your friends?



Next Challenge

✔ Test case 0

✔ Test case 1

✔ Test case 2

Compiler Message

Success

Input (stdin) Download

1	2
2	1 2
3	3 4
4	1 2
5	3 4

Expected Output Download

1	[[7 10]
2	[15 22]]