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Inner and Outer ★

You have successfully solved Inner and Outer

Споделя

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Problem

Submissions

Leaderboard

Editorial

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inner

The inner tool returns the **inner product** of two arrays.

```
import numpy

A = numpy.array([0, 1])
B = numpy.array([3, 4])

print numpy.inner(A, B)    #Output : 4
```

outer

The outer tool returns the **outer product** of two arrays.

```
import numpy

A = numpy.array([0, 1])
B = numpy.array([3, 4])

print numpy.outer(A, B)    #Output : [[0 0]
                             #        [3 4]]
```

Task

You are given two arrays: **A** and **B**.

Your task is to compute their inner and outer product.

Input Format

The first line contains the space separated elements of array **A**.

The second line contains the space separated elements of array **B**.

Output Format

First, print the inner product.

Second, print the outer product.

Sample Input

```
0 1
2 3
```

Sample Output

```
3
[[0 0]
 [2 3]]
```

Change Theme

Language

Pypy 3



```
1 # Link = https://www.hackerrank.com/challenges/np-inner-and-outer/problem
2
3 import numpy
4
5 first_array = []
6 second_array = []
7
8
9 first_array.append(list(map(int, input().split(" "))))
10 second_array.append(list(map(int, input().split(" "))))
11
12 inner_product = numpy.inner(first_array, second_array)
13 outer_product = numpy.outer(first_array, second_array)
14
15 print(inner_product.item())
16 print(outer_product)
17
```

Line: 17 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

Compiler Message

Success

 Test case 1  Test case 2 

Input (stdin)

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1	0 1
2	2 3

Expected Output

[Download](#)

1	3
2	[[0 0]
3	[2 3]]