



Inner and Outer ★

113/115 challenges solved

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Your Inner and Outer submission got 20.00 points.

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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]]

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Language

Python 3



```
1 import numpy as np
2
3 A = np.array(input().split(), int)
4 B = np.array(input().split(), int)
5
6 print(np.inner(A, B))
7 print(np.outer(A, B))
```

EMACS

Line: 7 Col: 22

Upload Code as File

☐

Test against custom input

Run Code

Submit Code

You have earned 20.00 points!

113/115 challenges solved.

98%



Congratulations

Next Challenge


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

✔ Test case 0

Compiler Message

✔ Test case 1 

Success

✔ Test case 2 

Input (stdin)

Download

1	0 1
2	2 3

Expected Output

Download

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