

## Inner and Outer

### 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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```
1 import numpy as np
2 arr_a=np.array(list(map(int,input().split())))
3 arr_b=np.array(list(map(int,input().split())))
4 print(np.inner(arr_a,arr_b))
5 print(np.outer(arr_a,arr_b))
6
```