# **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.

#### Task

You are given two arrays:  $\boldsymbol{A}$  and  $\boldsymbol{B}$ .

Your task is to compute their *inner* and *outer* product.

## **Input Format**

The first line contains the space separated elements of array  $\pmb{A}$ . The second line contains the space separated elements of array  $\pmb{B}$ .

# **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]]
```