Dot and Cross 🖈





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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 ${\pmb A}$ and ${\pmb B}$. Both have dimensions of ${\pmb N}{\!\!\! \times }{\pmb N}.$

Your task is to compute their matrix product.

Input Format

The first line contains the integer ${m N}$.

The next $m{N}$ lines contains $m{N}$ space separated integers of array $m{A}$.

The following $m{N}$ lines contains $m{N}$ space separated integers of array $m{B}$.

Output Format

Print the matrix multiplication of \boldsymbol{A} and \boldsymbol{B} .

Sample Input

- 2 1 2
- 3 4
- 1 2
- 3 4

Sample Output

[[7 10] [15 22]]

```
change Theme Language Python 3

import numpy as np

n = int(input())
A = np.array([input().split() for _ in range(n)], int)
B = np.array([input().split() for _ in range(n)], int)

print(np.dot(A, B))
```

EMACS

Line: 8 Col: 1

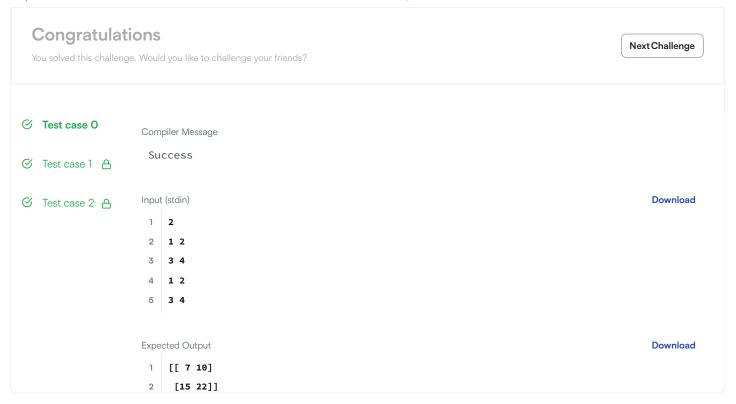
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Test against custom input

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Python



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