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Practice > Python > Numpy > Inner and Outer

Inner and Outer ☆

40/115 challenges solved
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Easy 20 8668

Submissions	Leaderboard	Discussions	Editorial		
				Author	
The <i>inner</i> tool returns the inner product of two arrays.					
				Submitted By	
av([0. 1])				NEED HELP?	
B = numpy.array([3, 4])				C View discussions	
print numpy.inner(A, B) #Output : 4					
peapy ve. (, e)				Ų view editoriai	
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Γhe <i>outer</i> tool returns the outer product of two arrays.				RATE THIS CHALLENGE	
•	,			ተ ተ ተ ተ	
				MORE DETAILS	
ay([0, 1])				1	
ay([3, 4])				Download problem statement	:nt
uter(A, B) #Outp	out: [[0 0]				5
# [3 4]]				Suggest Edits	
				F W F	
	ns the inner product of ay([0, 1]) ay([3, 4]) nner(A, B) #Outp ay([0, 1]) ay([3, 4]) uter(A, B) #Outp	ns the inner product of two arrays. ay([0, 1]) ay([3, 4]) nner(A, B) #Output: 4 ay([0, 1]) ay([0, 1]) ay([3, 4]) uter(A, B) #Output: [[0 0]	ay([0, 1]) ay([3, 4]) nner(A, B) #Output: 4 ay([0, 1]) ay([3, 4]) uter(A, B) #Output: [[0 0]	ns the inner product of two arrays. ay([0, 1]) ay([3, 4]) nner(A, B) #Output: 4 ay([0, 1]) ay([0, 1]) ay([3, 4]) uter(A, B) #Output: [[0 0]	Author Difficulty Max Score Submitted By NEED HELP? Quy([0, 1]) Auy([3, 4]) NEED HELP? View discussions U View editorial View top submissions RATE THIS CHALLENGE Author Difficulty Max Score Submitted By NEED HELP? View discussions Note outer product of two arrays. Author Difficulty Max Score Submitted By NEED HELP? View discussions More pathology View top submissions RATE THIS CHALLENGE Author MORE DETAILS Download problem statement Luter(A, B) #Output : [[0 0]

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

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

Input Format

The first line contains the space separated elements of array $m{A}$.

The second line contains the space separated elements of array $oldsymbol{B}$.

Output Format

First, print the inner product.

Second, print the outer product.

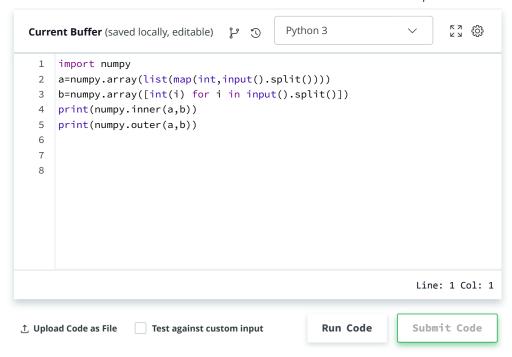
Sample Input

0 1

2 3

Sample Output

3 [[0 0] [2 3]]



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