

**PRACTICE** 

COMPETE

**JOBS** 

**LEADERBOARD** 

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**DOSHI** Easy 20 8234

Practice > Python > Numpy > Linear Algebra

## Linear Algebra ☆

41/115 challenges solved





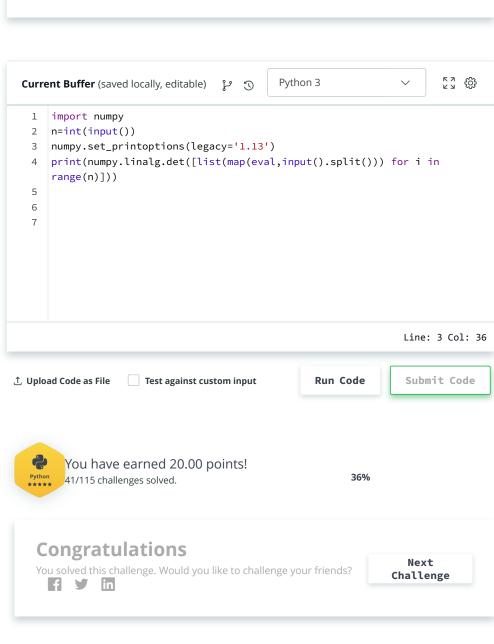
Problem	Submissions	Leaderboard	Discussions	Editorial 🖰	
The <i>NumPy</i> module	e also comes with a num	lations. These	Author		
can be found in the	sub-module <i>linalg</i> .				Difficulty  Max Score
linalg.det					Submitted By
The <i>linalg.det</i> tool c	computes the determina	nt of an array.			NEED HELP?
print numpy.l	inalg.det([[1 , 2],	[2, 1]]) #Outp	put: -3.0		<b>□</b> View discussions
linalg.eig					☐ View editorial
The <i>linalg.eig</i> comp		▼ View top submissions			
vals, vecs = r	numpy.linalg.eig([[				RATE THIS CHALLENGE
print vals print vecs		#Output : [	31.] [ 0.70710678 -0.70	710678]	MODE DETAILS
print vecs				_	MORE DETAILS
linalg.inv					
The <i>linalg.inv</i> tool co	omputes the (multiplicat	ive) inverse of a matrix.			
print numpy.l 0.66666667]	inalg.inv([[1 , 2],	[2, 1]]) #Outp	put: [[-0.33333333	3	f y in
		# [ 0.6	66666667 -0.3333333	33]]	
Other routines can	be found here				
Task					
You are given a squ	are matrix $m{A}$ with dimer	nsions $ extcolor{N}$ X $ extcolor{N}$ . Your task i	is to find the determina	ant.	
Input Format					
The first line contain	ns the integer $\emph{N}$ .				
The next $m{N}$ lines co	ontains the $oldsymbol{N}$ space sep	arated elements of array	/ <b>A</b> .		
Output Format					
Print the determina	ant of $m{A}$ .				

Sample Input

```
2
1.1 1.1
1.1 1.1

Sample Output

0.0
```



**⊘** Testcase 1

**⊘**Testcase 2

**⊘** Testcase 0

Input (stdin)	Download	Expected Output	Download
2 1.1 1.1 1.1 1.1		0.0	
Compiler Message  Success			

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