

PRACTICE

COMPETE

IOBS

LEADERBOARD

Q Search





Practice > Python > Numpy > Sum and Prod

Sum and Prod ☆

35/115 challenges solved

Rank: **20498** | Points: **495** ①



Problem	Submissions	Leaderboard	Discussions	Editorial
			Author	

sum

The sum tool returns the sum of array elements over a given axis.

Cubmissions

import numpy

my_array = numpy.array([[1, 2], [3, 4]])

print numpy.sum(my_array, axis = 0) #Output: [4 6] print numpy.sum(my_array, axis = 1) #Output : [3 7] print numpy.sum(my_array, axis = None) #Output: 10 print numpy.sum(my_array) #Output: 10

By default, the axis value is None. Therefore, it performs a sum over all the dimensions of the input array.

prod

The prod tool returns the product of array elements over a given axis.

import numpy

 $my_array = numpy_array([[1, 2], [3, 4]])$

print numpy.prod(my_array, axis = 0) #Output: [3 8 print numpy.prod(my_array, axis = 1) #Output: [2 print numpy.prod(my_array, axis = None) #Output: 24 print numpy.prod(my_array) #Output: 24

By default, the axis value is None. Therefore, it performs the product over all the dimensions of the input array.

Task

You are given a 2-D array with dimensions $N \times M$.

Your task is to perform the ${\it sum}$ tool over axis 0 and then find the ${\it product}$ of that result.

Input Format

Author	DOSHI
Difficulty	Easy
Max Score	20
Submitted By	9197

NEED HELP?

- View discussions
- **W** View editorial
- View top submissions

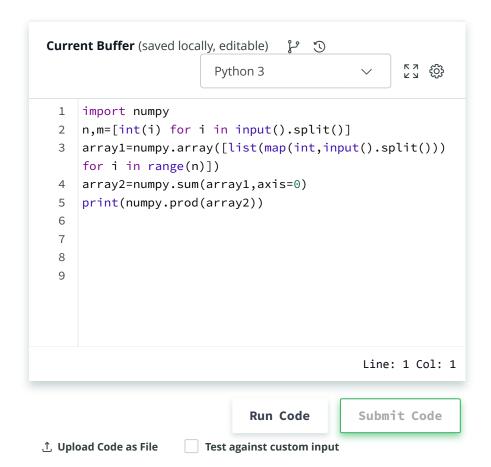
RATE THIS CHALLENGE



MORE DETAILS

- Download sample test cases
- Suggest Edits





Contest Calendar | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy | Request a Feature