Sum and Prod ★





Problem Submissions Leaderboard Editorial 🖰 sum The sum tool returns the sum of array elements over a given axis. 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 #Output: 10 print numpy.sum(my_array) By default, the axis value is None. Therefore, it performs a sum over all the dimensions of the input array. 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 12] #Output: 24 print numpy.prod(my_array, axis = None) 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 $N exttt{X} oldsymbol{M}$.

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

Input Format

The first line of input contains space separated values of $m{N}$ and $m{M}$.

The next $m{N}$ lines contains $m{M}$ space separated integers.

Output Format

Compute the sum along axis $\mathbf{0}$. Then, print the product of that sum.

Sample Input

- 2 2
- 1 2
- 3 4

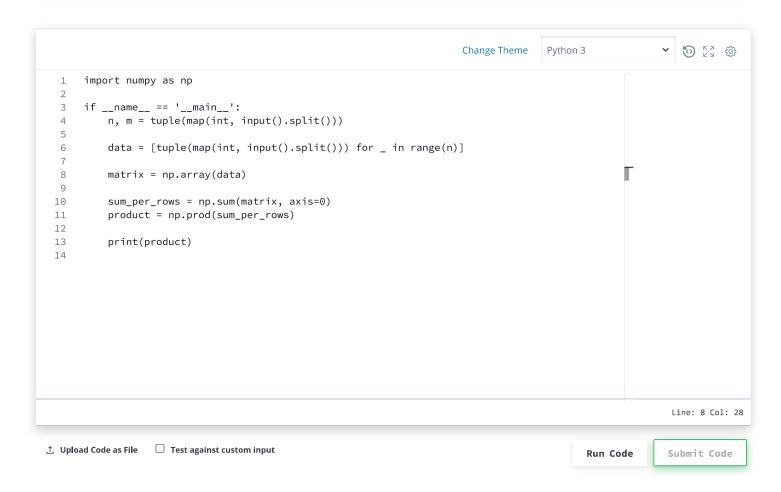
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Sample Output

24

Explanation

The sum along axis \mathbf{0} = [\mathbf{4} \, \mathbf{6}]

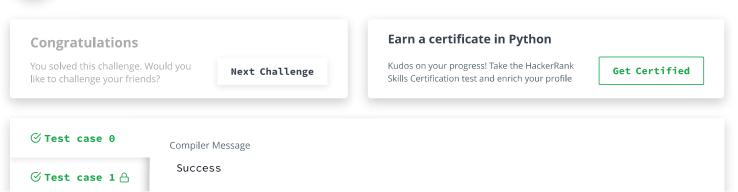
The product of this sum = \mathbf{24}
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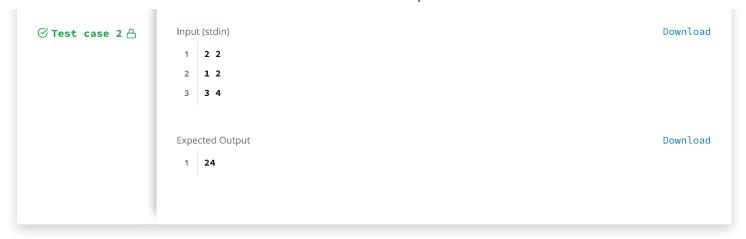


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