





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
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 12]

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 *sum* tool over axis **0** and then find the *product* of that result.

Input Format

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

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

Output Format

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

Sample Input

- 2 2
- 1 2
- 3 4



Sample Output

24

Explanation

The sum along axis $0 = [4 \ 6]$ The product of this sum = 24

EMACS

Line: 8 Col: 1

Test against custom input

Run Code

Submit Code

You have earned 20.00 points!
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| Python **** | | | |
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