Mean, Var, and Std ★



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Your Mean, Var, and Std submission got 20.00 points.
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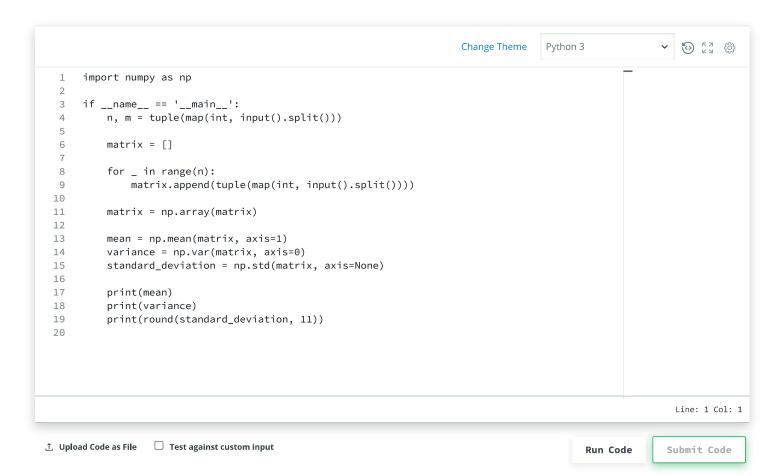
Problem Submissions Leaderboard Editorial 🖰 mean The mean tool computes the arithmetic mean along the specified axis. import numpy my_array = numpy.array([[1, 2], [3, 4]]) #Output: [2. 3.] print numpy.mean(my_array, axis = 0) print numpy.mean(my_array, axis = 1) #Output: [1.5 3.5] print numpy.mean(my_array, axis = None) #Output : 2.5 print numpy.mean(my_array) #Output: 2.5 By default, the axis is None. Therefore, it computes the mean of the flattened array. The var tool computes the arithmetic variance along the specified axis. import numpy my_array = numpy.array([[1, 2], [3, 4]]) print numpy.var(my_array, axis = 0) #Output : [1. 1.] print numpy.var(my_array, axis = 1) #Output : [0.25 0.25] print numpy.var(my_array, axis = None) #Output: 1.25 print numpy.var(my_array) #Output: 1.25 By default, the axis is None. Therefore, it computes the variance of the flattened array. std The std tool computes the arithmetic standard deviation along the specified axis. import numpy my_array = numpy.array([[1, 2], [3, 4]]) print numpy.std(my_array, axis = 0) #Output : [1. 1.] print numpy.std(my_array, axis = 1) #Output : [0.5 0.5] print numpy.std(my_array, axis = None) #Output: 1.11803398875 #Output: 1.11803398875 print numpy.std(my_array) By default, the axis is None. Therefore, it computes the standard deviation of the flattened array.

You are given a 2-D array of size NXM.

Your task is to find:

1. The mean along axis $oldsymbol{1}$

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2. The var along axis {f 0}
3. The std along axis \emph{None}
Input Format
The first line contains the space separated values of m{N} and m{M}.
The next oldsymbol{N} lines contains oldsymbol{M} space separated integers.
Output Format
First, print the mean.
Second, print the var.
Third, print the std.
Sample Input
  2 2
  1 2
   3 4
Sample Output
   [ 1.5 3.5]
   [1.1.]
   1.11803398875
```

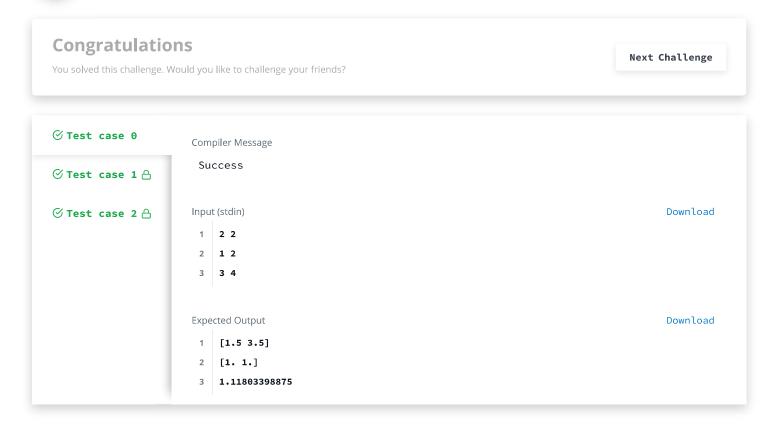


You have earned 20.00 points!

71/115 challenges solved.

62%





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