

PRACTICE

COMPETE

JOBS

LEADERBOARD





Practice > Python > Numpy > Min and Max

Min and Max ☆

36/115 challenges solved

Rank: **19380** | Points: **515** (!)

Tweet



X

DOSHI

Your Min and Max submission got 20.00 points. Share

Try the next challenge | Try a Random Challenge

Problem	Submissions	Leaderboard	Discu
min			
The tool min returns t	he minimum value ald	ong a given axis.	
import numpy			
my_array = nump	y.array([[2, 5], [3, 7], [1, 3], [4, 0]])		
print numpy.mir	n(my_array, axis = n(my_array, axis = n(my_array, axis = n(my_array)	1) #Output	: [2 3 1 6

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

max

The tool max returns the maximum value along a given axis.

import numpy

```
my_array = numpy.array([[2, 5],
                    [3, 7],
                    [1, 3],
                    [4, 0]])
```

print numpy.max(my_array, axis = 0) #Output: [4 7] print numpy.max(my_array, axis = 1) #Output: [5 7 3 4

Discussions Editorial A Author

> Difficulty Easy Max Score 20

> Submitted By 9310

NEED HELP?

View discussions

W View editorial

View top submissions

RATE THIS CHALLENGE



MORE DETAILS

- **■** Download problem statement
- Download sample test cases
- Suggest Edits

print numpy.max(my_array, axis = None) #Output: 7
print numpy.max(my_array) #Output: 7

By default, the axis value is None. Therefore, it finds the maximum 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 min function over axis ${f 1}$ and then find the max of that.

Input Format

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

The next N lines contains M space separated integers.

Output Format

Compute the min along axis 1 and then print the max of that result.

Sample Input

- 4 2
- 2 5
- 3 7
- 1 3
- 4 0

Sample Output

3

Explanation

The min along axis 1 = [2, 3, 1, 0]

The max of [2, 3, 1, 0] = 3

Tython 3

Python 3

Python 3

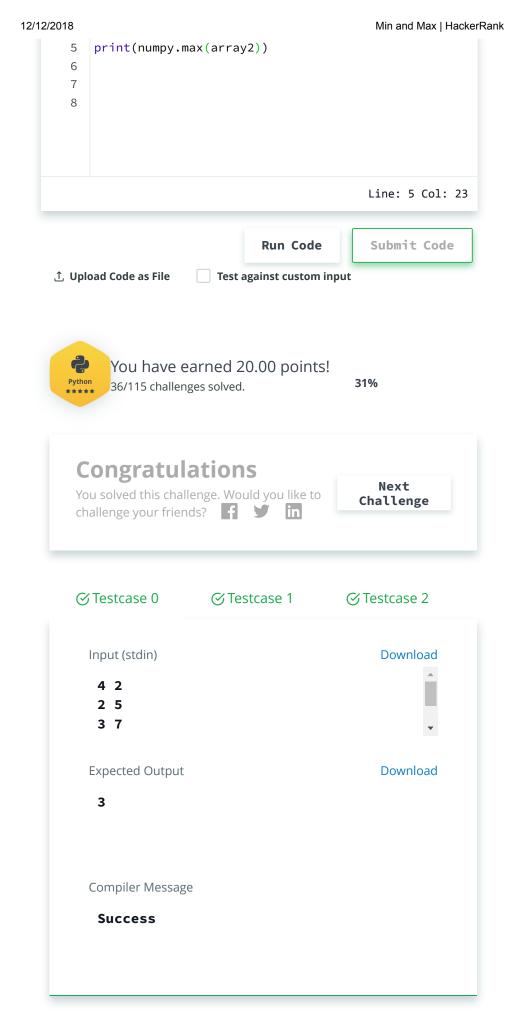
python 3

import numpy

n,m=[int(i) for i in input().split()]

array1=numpy.array([list(map(int,input().split())))
for i in range(n)])

array2=numpy.min(array1,axis=1)



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