Min and Max ☆

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min

The tool *min* returns the minimum value along a given axis.

```
import numpy

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

print numpy.min(my_array, axis = 0)        #Output : [1 0]
print numpy.min(my_array, axis = 1)        #Output : [2 3 1 0]
print numpy.min(my_array, axis = None)     #Output : 0
print numpy.min(my_array)                #Output : 0
```

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]
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 NxM.

Your task is to perform the *min* function over axis 1 and then find the *max* of that.

Input Format

The first line of input contains the space separated values of N and 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 $\mathbf{1}$ = $[2, 3, 1, 0]$
The *max* of $[2, 3, 1, 0]$ = $\mathbf{3}$

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```
1  import numpy as np
2  n,m =map(int,input().split())
3  result= np.array([input().split() for x in range(n)],int)
4  print(np.max(np.min(result,axis=1)))
5
6
```

Line: 4 Col: 35

Upload Code as File | Test against custom input | Run Code | Submit Code

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32% 145/220

Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

Test case 0

Test case 1

Test case 2

Compiler Message

Success

Input (stdin) Download

```
4 2
2 5
3 7
1 3
4 0
```

Expected Output Download

```
3
```