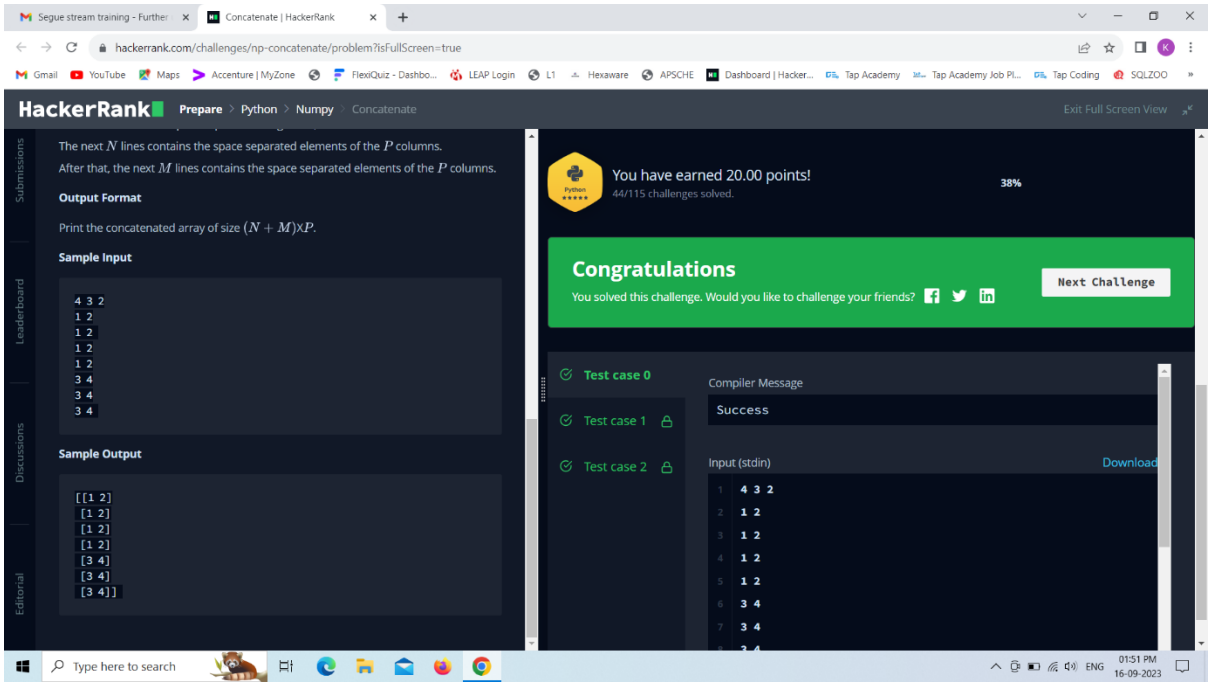
Segue stream training - Further
Concatenate | HackerRank
hackerrank.com/challenges/np-concatenate/problem?isFullScreen=true
HackerRank
Prepare > Python > Numpy > Concatenate
Exit Full Screen View
The next N lines contains the space separated elements of the P columns.
After that, the next M lines contains the space separated elements of the P columns.
Output Format
Print the concatenated array of size $(N+M)xP$.
Sample Input
4 3 2
1 2
1 2
1 2
1 2
3 4
3 4
3 4
Sample Output
[[1 2]
[1 2]
[1 2]
[1 2]
[3 4]
[3 4]
[3 4]]
You have earned 20.00 points!
44/115 challenges solved.
38%
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 3 2
1 2
1 2
1 2
1 2
3 4
3 4
Submissions
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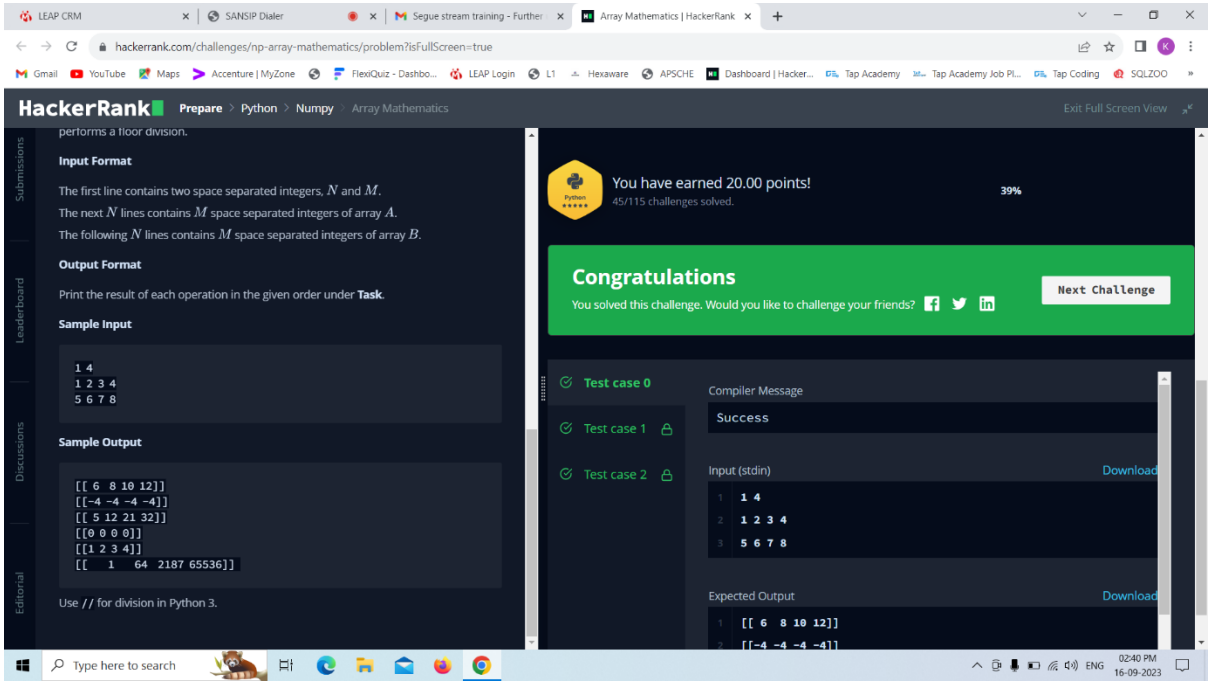
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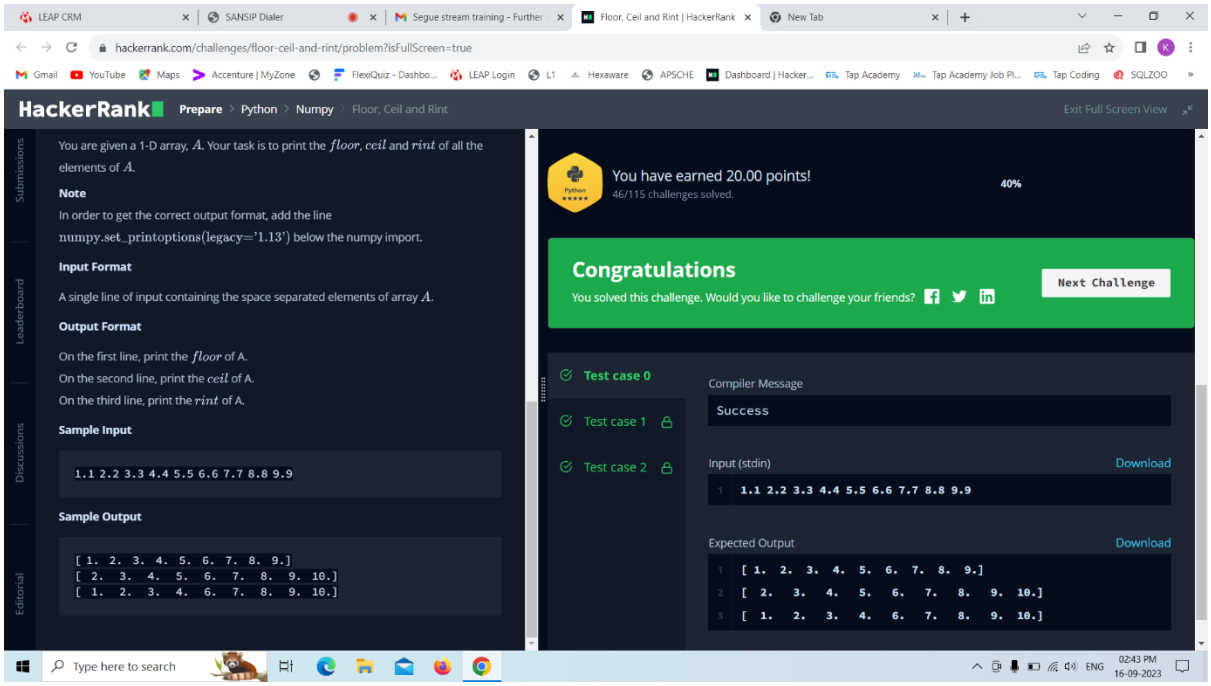
Array Mathematics | HackerRank
hackerrank.com/challenges/np-array-mathematics/problem?isFullScreen=true
HackerRank
Prepare > Python > Numpy > Array Mathematics
Exit Full Screen View
performs a floor division.
Input Format
The first line contains two space separated integers, N and M.
The next N lines contains M space separated integers of array A.
The following N lines contains M space separated integers of array B.
Output Format
Print the result of each operation in the given order under Task.
Sample Input
1 4
1 2 3 4
5 6 7 8
Sample Output
[[6 8 10 12]]
[[-4 -4 -4 -4]]
[[5 12 21 32]]
[[0 0 0 0]]
[[1 2 3 4]]
[[1 64 2187 65536]]
Use // for division in Python 3.
You have earned 20.00 points!
45/115 challenges solved.
39%
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
1 4
1 2 3 4
5 6 7 8
Expected Output
Download
[[6 8 10 12]]
Submissions
Leaderboard
Discussions
Editorial
Type here to search
ENG
02:40 PM
16-09-2023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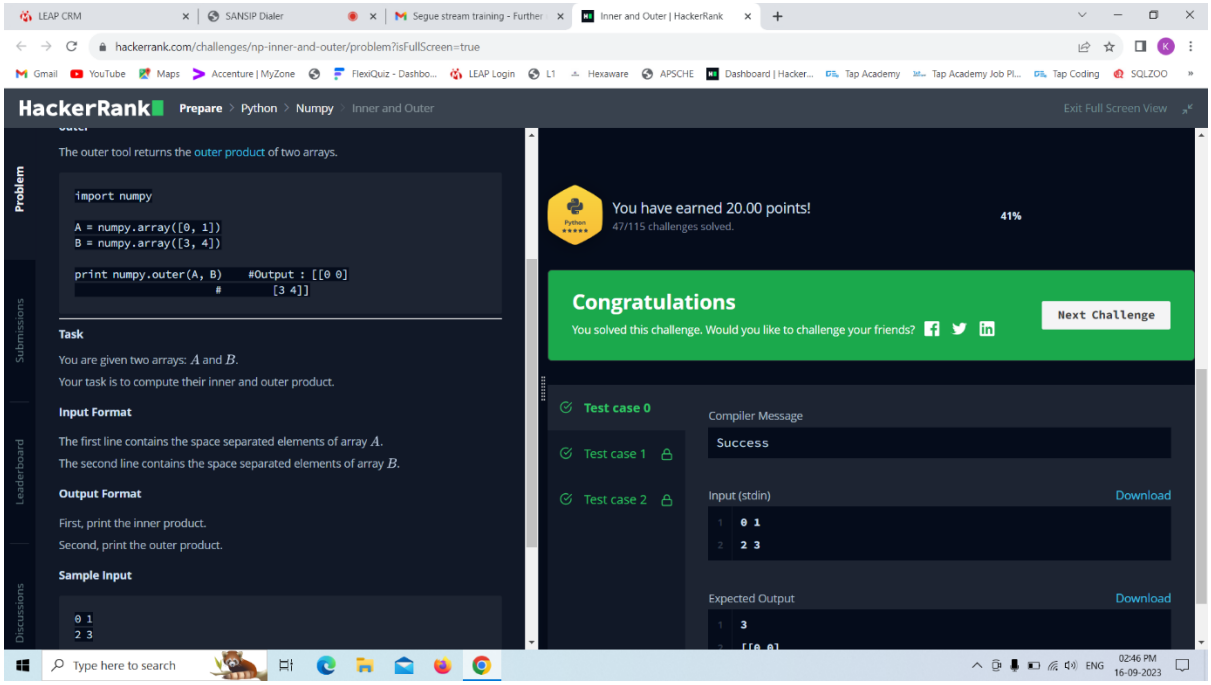
Floor, Ceil and Rint | HackerRank
New Tab
hackerrank.com/challenges/floor-ceil-and-rint/problem?isFullScreen=true
HackerRank
Prepare > Python > Numpy > Floor, Ceil and Rint
Exit Full Screen View
Submissions
Leaderboard
Discussions
Editorial
You are given a 1-D array, A. Your task is to print the $floor$, $ceil$ and $rint$ of all the elements of A.
Note
In order to get the correct output format, add the line numpy.set_printoptions(legacy='1.13') below the numpy import.
Input Format
A single line of input containing the space separated elements of array A.
Output Format
On the first line, print the $floor$ of A.
On the second line, print the $ceil$ of A.
On the third line, print the $rint$ of A.
Sample Input
1.1 2.2 3.3 4.4 5.5 6.6 7.7 8.8 9.9
Sample Output
[1. 2. 3. 4. 5. 6. 7. 8. 9.]
[2. 3. 4. 5. 6. 7. 8. 9. 10.]
[1. 2. 3. 4. 6. 7. 8. 9. 10.]
You have earned 20.00 points!
46/115 challenges solved.
40%
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
1.1 2.2 3.3 4.4 5.5 6.6 7.7 8.8 9.9
Expected Output
Download
[1. 2. 3. 4. 5. 6. 7. 8. 9.]
[2. 3. 4. 5. 6. 7. 8. 9. 10.]
[1. 2. 3. 4. 6. 7. 8. 9. 10.]
Type here to search
ENG
02:43 PM
16-09-2023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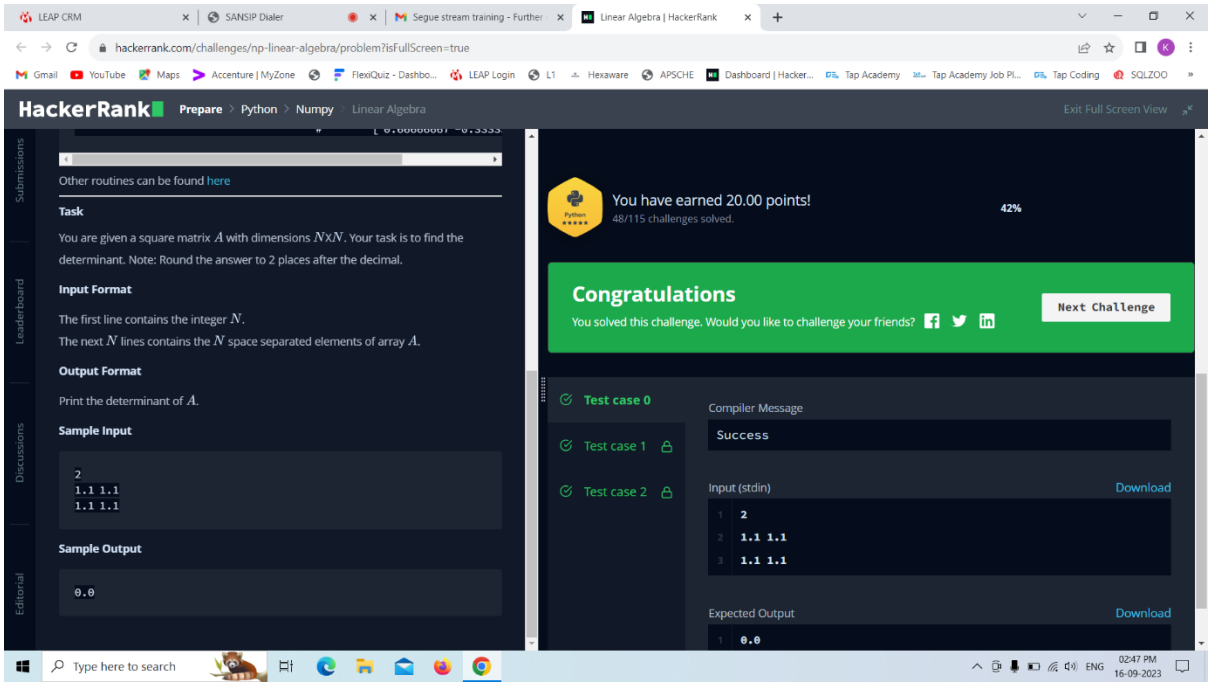
Segue stream training - Further
Inner and Outer | HackerRank
hackerrank.com/challenges/np-inner-and-outer/problem?isFullScreen=true
HackerRank
Prepare > Python > Numpy > Inner and Outer
Exit Full Screen View
Problem
Submissions
Leaderboard
Discussions
The outer tool returns the outer product of two arrays.
import numpy
A = numpy.array([0, 1])
B = numpy.array([3, 4])
print numpy.outer(A, B) #Output : [[0 0]
[3 4]]
Task
You are given two arrays: A and B.
Your task is to compute their inner and outer product.
Input Format
The first line contains the space separated elements of array A.
The second line contains the space separated elements of array B.
Output Format
First, print the inner product.
Second, print the outer product.
Sample Input
0 1
2 3
You have earned 20.00 points!
47/115 challenges solved.
41%
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
0 1
2 3
Expected Output
Download
3
Type here to search
ENG
02:46 PM
16-09-2023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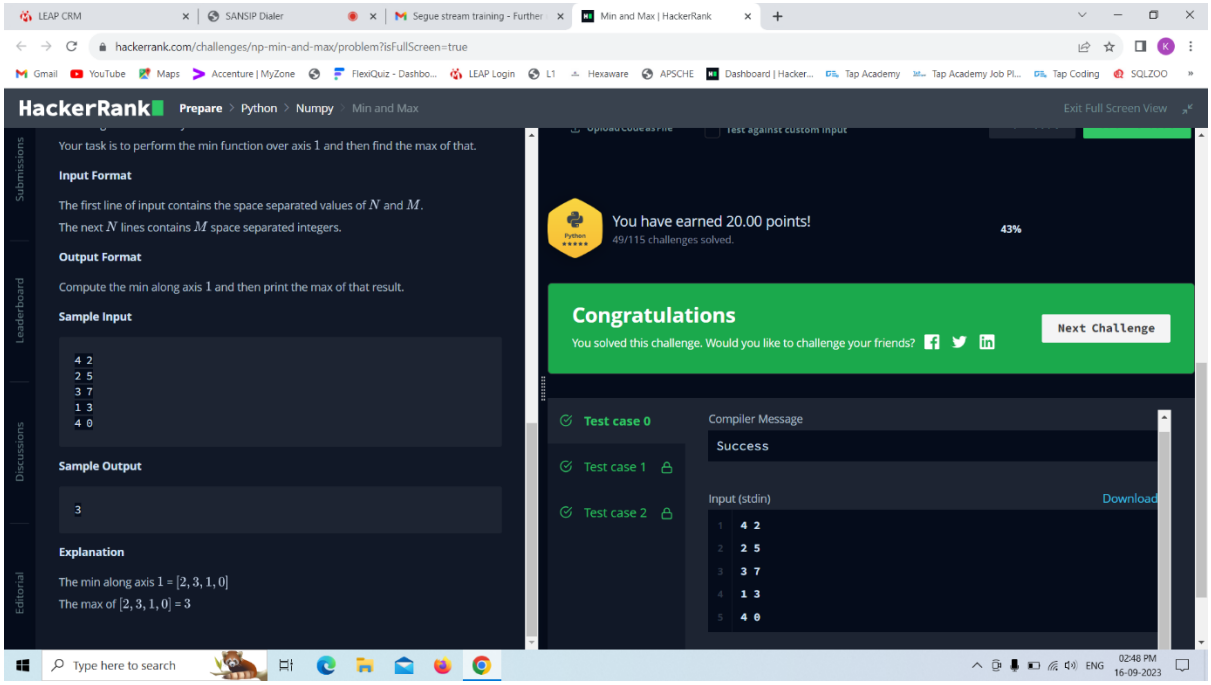
Linear Algebra | HackerRank
hackerrank.com/challenges/np-linear-algebra/problem?isFullScreen=true
HackerRank
Prepare > Python > Numpy > Linear Algebra
Exit Full Screen View
Other routines can be found here
Task
You are given a square matrix A with dimensions NxN. Your task is to find the determinant. Note: Round the answer to 2 places after the decimal.
Input Format
The first line contains the integer N.
The next N lines contains the N space separated elements of array A.
Output Format
Print the determinant of A.
Sample Input
2
1.1 1.1
1.1 1.1
Sample Output
0.0
You have earned 20.00 points!
48/115 challenges solved.
42%
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
2
1.1 1.1
1.1 1.1
Expected Output
Download
0.0
Type here to search
ENG
02:47 PM
16-09-2023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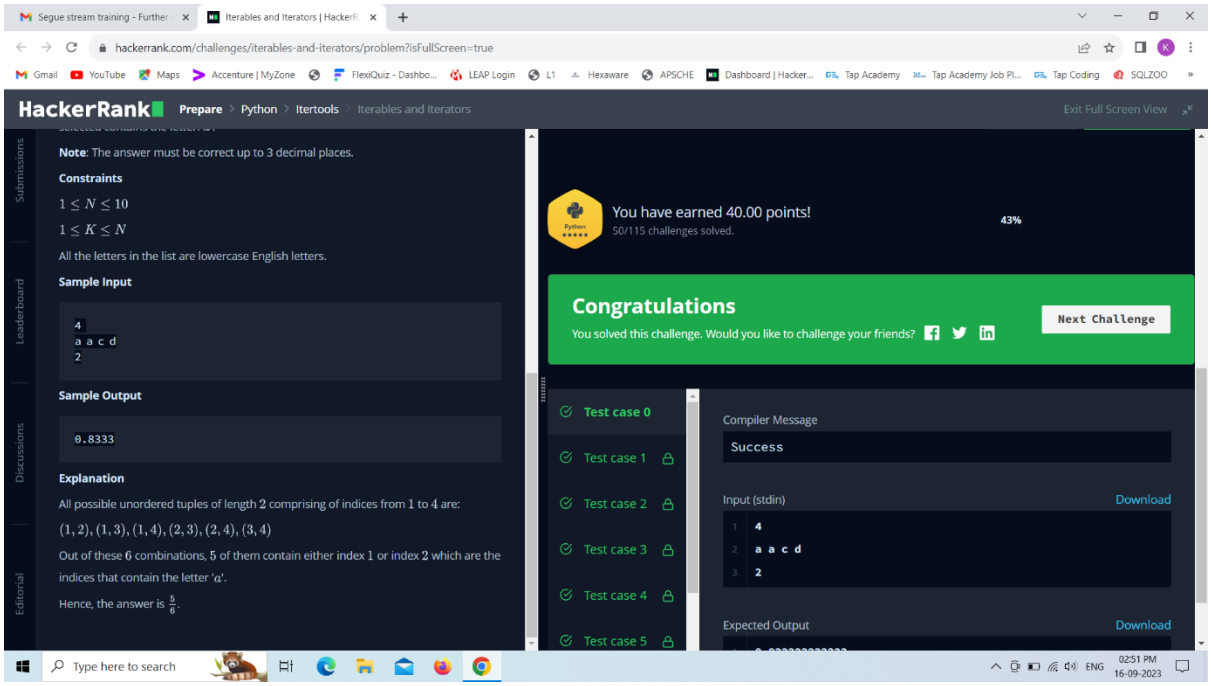
Min and Max | HackerRank
hackerrank.com/challenges/np-min-and-max/problem?isFullScreen=true
HackerRank
Prepare > Python > Numpy > Min and Max
Exit Full Screen View
Your task is to perform the min function over axis 1 and then find the max of that.
Input Format
The first line of input contains the space 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 1 = $[2, 3, 1, 0]$
The max of $[2, 3, 1, 0]$ = 3
You have earned 20.00 points!
49/115 challenges solved.
43%
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
Type here to search
ENG
02:48 PM
16-09-2023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Iterables and Iterators | HackerR
hackerrank.com/challenges/iterables-and-iterators/problem?isFullScreen=true
HackerRank
Prepare > Python > Itertools > Iterables and Iterators
Exit Full Screen View
Submissions
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Discussions
Editorial
Note: The answer must be correct up to 3 decimal places.
Constraints
$1 \leq N \leq 10$
$1 \leq K \leq N$
All the letters in the list are lowercase English letters.
Sample Input
4
a a c d
2
Sample Output
0.8333
Explanation
All possible unordered tuples of length 2 comprising of indices from 1 to 4 are:
$(1,2),(1,3),(1,4),(2,3),(2,4),(3,4)$
Out of these 6 combinations, 5 of them contain either index 1 or index 2 which are the indices that contain the letter 'a'.
Hence, the answer is $\frac{5}{6}$.
You have earned 40.00 points!
50/115 challenges solved.
43%
Congratulations
You solved this challenge. Would you like to challenge your friends?
Next Challenge
Test case 0
Test case 1
Test case 2
Test case 3
Test case 4
Test case 5
Compiler Message
Success
Input (stdin)
Download
4
a a c d
2
Expected Output
Download
Type here to search
ENG
02:51 PM
16-09-2023