MNC COMPANIES - SET 001

Solved Challenges **1/10**

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Count Strong Points

ID:12034 **Solved By 55 Users**

Accenture

The program must accept an integer matrix of size **RxC** as the input. The program must print the number of strong points in the given matrix as the output. The strong points are located at the element(s) whose all the surrounding elements are smaller than the given element.

Boundary Condition(s):
2 <= R, C <= 50
1 <= Matrix element value <= 1000

Input Format:
The first line contains R and C separated by a space.
The next R lines, each containing C integers separated by a space.

Output Format:
The first line contains the number of strong points in the given matrix.

Example Input/Output 1:
Input:
3 3
56 92 45
19 41 51
55 31 80

Output:
3

Explanation:
The **3** strong points are given below.
92 > [56, 19, 41, 51, 45]
55 > [19, 41, 31]
80 > [41, 51, 31]
Hence the output is 3.

Example Input/Output 2:
Input:
6 5
69 45 47 35 62
43 68 22 55 72
53 96 21 24 49
89 34 86 10 37
94 31 93 12 70
74 81 13 60 95

Output:
6

Max Execution Time Limit: 50 millisecs

Ambiance

Python3 (3.x)

Reset

```
R,C = map(int,input().strip().split())

matrix = []

for row in range(R+2):
    if(row==0 or row==R+1):
        temp = [0]*(C+2)
        matrix.append(temp)
        continue
    temp = list(map(int,input().strip().split()))
    temp.insert(0,0)
    temp.insert(C+1,0)
    matrix.append(temp)

count=0
for row in range(R+2):
    for col in range(C+2):
        if(matrix[row][col]> matrix[row-1][col] and matrix[row
            > matrix[row+1][col] and matrix[row][col]
            >matrix[row][col-1] and matrix[row][col]>matrix[ro
            +1] and matrix[row][col]>matrix[row-1][col-1] and
            matrix[row][col]>matrix[row+1][col+1] and
        matrix[row][col]>matrix[row-1][col+1] and matrix[row][
            >matrix[row+1][col-1]):
            count+=1
print(count)
```

Code did not pass the execution

TestCase ID: 77744

Input:

```
3 3
56 92 45
19 41 51
55 31 80
```

Expected Output:

```
3
```

Your Program Output:

```
[[0, 0, 0, 0, 0], [0, 56, 92, 45, 0], [0, 19, 41, 51, 0], [0, 55, 31, 80, 0], [0, 0, 0, 0, 0]]
3
```

Save Run

☐ Run with a custom test case (Input/Output)