Description | My Submissions | Hints/Editorial | AC Submissions | My Notes (0)

Max Value in the Rectangle

? Ask Doubt

Time-Limit: 4 sec Score: 0/100 Difficulty :

Memory: 256 MB Accepted Submissions: 100 Relevant For: AZ-201 AZ-202

Description

Given a 2d-array of dimension *N*M* and *Q* queries. In each query five integers *x1, y1, x2, y2, C* is given, you have to increase the value of each cell in the submatrix with *(x1,y1)* be the leftmost corner and *(x2,y2)* be the rightmost corner by *C*. Initially the value of all the cell of the 2d-array is 0.

After all the query is performed, print the maximum value present in the 2d-array and the number of the cell with the maximum value.

Input Format

The first line contains three space-separated integers *N*, *M*, *Q* where 1<=*N*, *M*<=10^3, 1<=*Q*<=10^6.

The next *Q* lines contains five space separated integers *x1, y1, x2, y2, C* where 1<=*x1*<=*x2*<=*N*, 1<=*y1*<=*y2*<=*M*, -10^9<=*C*<=10^9.

Output Format

After all the query is performed, print 2 space-separated integers representing the maximum value present in the 2d-array and the number of the cell with the maximum value.

Sample Input 1

Copy

```
5 5 5
1 1 2 2 -8
1 2 3 4 9
2 3 3 3 -2
4 4 4 4 -4
2 3 2 4 0
```

Sample Output 1

Copy

```
9 5
```

C++14[GCC]

Submit

1