

Hello 3★ nitish\_nave ▼

(/users/nitish nave)

PRACTICE (/PROBLEMS/SCHOOL)

COMPETE (/CONTESTS)

DISCUSS (HTTP://DISCUSS.CODECHEF.COM/)

COMMUNITY (/COMMUNITY)

HELP (/HELP)

ABOUT (/ABOUTUS)

( CODECHEF Certified )

Data Structure & Algorithms Programme

EXAM DATE 19 JAN

Super Early Bird Ends on 01 Dec 2019

KNOW MORE

(/certification/data-structures-and-algorithms/ahout?itm\_campaign=adstrip) submissions) » Chef loves Chocolates

# **Chef loves Chocolates**

Problem Code: SAT102

Submit (/SATA2019/submit/SAT102)

~

Logout (/logou

<u>Tweet</u>

(https://tw Like 1 Share) Be the first of your friends to like this.

Chef Loves Chocolates !!

Chefland is a 2-Dimensional plot. Chef is currently at the top-left corner and has 0 chocolates. Every cell of the plot contains some integer number of chocolates. Chef can only move either to right, down or diagonally down. On every visited cell if the cell has a positive number , Chef gains that number of chocolates and if the cell has a negative number , Chef looses those number of chocolates .Chef finally ends on reaching bottom-right corner . It is possible to have negative number of chocolates.

Your task is to find the number of maximum chocolates Chef can have on reaching the destination.

For example

For a plot having N rows and M columns,

Chef starts at (1,1), then chef can move to (1,2) or (2,1) or (2,2) i.e. for every cell [i,j] chef can move to [i+1,j] or [i,j+1] or [i+1,j+1]. At no point chef can exit the plot and chef's final location would be (N,M).

### Input ::

- -First line conatins T, no of test cases.
- -Every test starts with 2 integers  $N,\,M$  , no of rows and columns of the plot.
- -Each of the next N contain  $A_1,A_2,\ldots,A_m$  M integers

## Output ::

-For every test output an integer , the maximum number of chocolates chef can have.

### Constraints ::

1 <= T <= 20

1 <= N,M <= 1000

-1000 <= A<sub>i</sub> <= 1000

### Example Input ::

1

23

100 -350 -200

-100 -300 700

My Submissions All Submissions (/SATA2019/status/SAT102,n((ISATA2049/status/SA

Successful Submissions