Chef loves Chocolates

Problem Code: **SAT102**

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Chef Loves Chocolates !!

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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 diagonaly 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,.....,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_i <= 1000

Example Input ::

1
2 3
100 -350 -200
-100 -300 700