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# **Matrix Land**



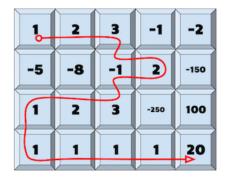


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Submissions will no longer be placed on the leaderboard. You may still attempt this problem for practice.

You are playing a matrix-based game with the following setup and rules:

- You are given a matrix A with n rows and m columns. Each cell contains some points. When a player passes a cell their score increases by the
  number written in that cell and the number in the cell becomes 0. (If the cell number is positive their score increases, otherwise it decreases.)
- The player starts from any cell in the first row and can move left, right or down.
- The game is over when the player reaches the last row and stops moving.



Print the maximum score that the player can get.

# **Input Format**

The first line contains n and m. The next n lines contain m numbers each,  $j^{th}$  number in  $i^{th}$  line denotes the number that is written on cell  $A_{i,j}$ .

### **Constraints**

- $1 \le n \times m \le 4 \times 10^6$
- $-250 \le A_{i,j} \le 250$

#### Subtasks

- for 20% tests  $1 \le n, m \le 40$ .
- for 20% tests  $40 < n, m \le 500$ .

## **Output Format**

Print the maximum score that the player can get.

# Sample Input 0

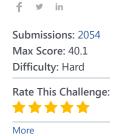
```
1 2 3 -250 100
1 1 1 1 20
```

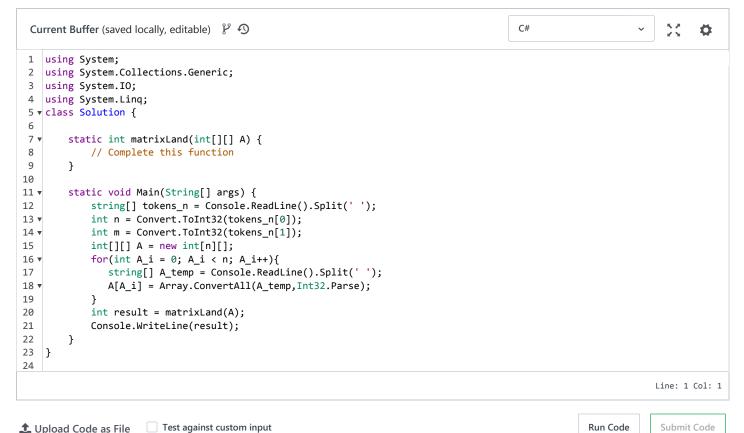
#### **Sample Output 0**

37

#### **Explanation 0**

Refer the image given in statement, the path followed is 1, 2, 3, -1, 2, -1, 3, 2, 1, 1, 1, 1, 1, 20 summing upto 37. Note that, -1 is traversed 2 times, but the second time it only contributes 0 to the sum.





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**1** Upload Code as File