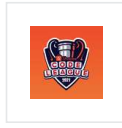


Shopee Programming Contest

Logout

02 : 58 : 19
HRS MIN SEC

Shopee Programming Contest

LIVE INVITE ONLY ACCESS

Mar 20, 2021, 01:00 PM WIB - Mar 20, 2021, 04:00 PM WIB

INSTRUCTIONS PROBLEMS SUBMISSIONS LEADERBOARD ANALYTICS JUDGE

[← Problems / Shopee Farm](#)

Shopee Farm

Max. score: 10

Shopee Farm is a popular game in Shopee App. In Shopee Farm, you can plant some plants. One of the game developers has an idea to create a new sub game in Shopee Farm. In the sub game, you are given a park and the park has 1 dimensional shape and it consists of M different cells. In each cell you must plant exactly 1 tree. Each day, the tree can yield a beneficial fruit / poisonous fruit / neither beneficial nor poisonous fruit. The beneficial fruit means that you will get a positive number of health. The poisonous fruit gives you a negative number of health. Otherwise, you will get 0 health.

Then you are given a character that will start at the left side of the one dimensional park. You are given N days to play the game. Each day, the number of health in each fruit produced by a tree might change. In one day the character can do one of these actions:

1. Not crossing the park at all (stay at the current spot).
2. Walk through the park going through up to M cells, gathering all the beneficial and poisonous fruits along the way, then the character turns around and goes back to the initial position before he walks through the park.
3. Crossing the park completely, and going to the opposite side of the park, then the character rests there.

Note: On one day, the fruit in a cell can be gotten at most once.

Please help the character to get the maximum amount of health.

Input

There will be T ($1 \leq T \leq 10$) number of test cases. On each test case, there will be a line with 2 integers, N and M ($1 \leq N \leq 1000, 1 \leq M \leq 1000$). Then N lines follow up, with each line containing M integers, $A_{i,j}$ ($-10^9 \leq A_{i,j} \leq 10^9$), which means the health of the fruit on day i at cell j .

Output

The output must consist of T number of integers, indicating the maximum amount of health that the character can get.

SAMPLE INPUT



```
3
1 5
-9 -8 1 2 3
2 3
1 4 -5
-1 -9 100
2 3
1 4 -5
-1 -1 100
```



SAMPLE OUTPUT



```
0
100
103
```

Explanation

1. For the first example, the character can decide to not cross the park at all, hence the total health that the character gets is 0.
2. For the second example,
 1. On the first day, the character goes from the left, then completely crossing the park, then he rests at the right side of the park, and the total number of health is: $1 + 4 + (-5) = 0$.
 2. On the second day, the character goes from the right side of the park, only to the first cell from the right, then go back to the right side of the park, and the total number of health the character gets from the second day is 100.
 3. Hence, the total health that the character gets from 2 days is $0 + 100 = 100$.
3. For the third example,
 1. On the first day, the character goes from the left, but only getting the health from the first 2 cells, then the character goes back to the left side of the park, and the total number of health is: $1 + 4 = 5$.
 2. On the second day, the character goes from the left side of the park, and goes completely crossing the park, gaining total health of: $(-1) + (-1) + 100 = 98$ for the second day.
 3. Hence, the total health that the character gets from 2 days is $5 + 98 = 103$.

Time Limit: 2.0 sec(s) for each input file.

Memory Limit: 64 MB

Source Limit: 1024 KB

Marking Scheme: Score is assigned when all the testcases pass.

Allowed Languages: Bash, C, C++, C++14, C++17, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, Java 14, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, Python 3.8, R(RScript), Racket, Ruby, Rust, Scala, Swift-4.1, Swift, TypeScript, Visual Basic

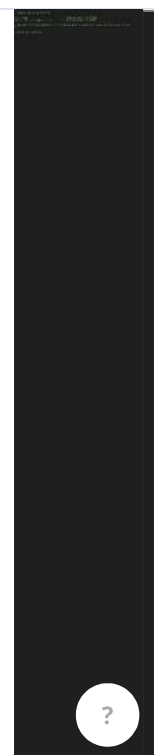
CODE EDITOR

Save

C++14 (g++ 5.4.0)




```
1  /*
2  // Sample code to perform I/O:
3
4  cin >> name;                // Reading input from STDIN
5  cout << "Hi, " << name << ".\n";    // Writing output to STDOUT
6
7  // Warning: Printing unwanted or ill-formatted data to output will cause the test cases to fail
8  */
9
10 // Write your code here
11
```




☒ Provide custom input

COMPILE & TEST

SUBMIT

 **Tip:** You can submit any number of times you want. Your best submission is considered for computing total score.

 **Support:** For any queries or issues, write to techsg@shopee.com.

Your Rating: Like 0 Share

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