



Dont use Elevator

Submit solution

My submissions All submissions Best submissions

✓ Points: 100 (partial)

② Time limit: 0.7s

Memory limit: 256M

Author:

> Problem type

✓ Allowed languages C. C++

Don't use Elevator

- Vindya City is rectangular. It can be divided into $N \times M$ grid, each cell (R,C) representing a 1-acre square plot. $(1 \le R \le N, 1 \le C \le M)$.
- Each cell (R, C) has height H(R, C) given to it.
- From cell (R,C), a person can move only to cells (R+1,C), (R-1,C), (R,C+1) and (R,C-1) (given those positions lie in the Grid).
- For moving between two cells of different heights, usage of the elevator is needed. The elevator is not needed to move between two cells with the same height.
- Starting at (1,1), what is the minimum number of times the elevator needs to be used to reach (N,M)?

Input Format

- \bullet First line contains the number of test cases T. $1 \leq T \leq 5$
- First line of each test case contains N, M defining the dimensions of Vindya City $1 \le N, M \le 10^3$
- ullet Next N lines of the test case contain M integers representing the height of cells in the grid.
- The j^{th} element at the i^{th} line represents the height of cell (i, j).
- inputting by short int might be faster

Output Format

proudly powered by **DMOJ** | English (en)

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Batches

- Batch 1: T=1, $1 \leq N, M \leq 10$ (20 Points)
- Batch 2: T = 1, $1 \le N, M \le 100$ (30 Points)
- \bullet Batch 3: T=1, $1 \leq N, M \leq 1000$ (40 Points)
- \bullet Batch 4: $T \leq 5$, $1 \leq N, M \leq 1000$ (10 Points)

use short int for Height. Taking input will be faster.

Sample Testcases

Sample 1

Input

Output

Сору

Sample 2

Input

1 2 3 1 2 3 4 5 6

Output

Copy





Sample 3

Input

```
1
6 6
1 2 1 3 3 3
1 1 1 3 5 3
1 7 4 5 3 3
1 9 2 6 4 4
11 10 12 13 4 8
11 10 12 13 4 4
```

Output

2 Copy

Diagram

(1,1)	(1,2)	(1,3)	(1,4)	(1,5)	(1,6)
(2,1)	(2,2)	(2,3)	(2,4)	(2,5)	(2,6)
(3,1)	(3,2)	(3,3)	(3,4)	(3,5)	(3,6)
(4,1)	(4,2)	(4,3)	(4,4)	(4,5)	(4,6)
(5,1)	(5,2)	(5,3)	(5,4)	(5,5)	(5,6)
(6,1)	(6,2)	(6,3)	(6,4)	(6,5)	(6,6)

to to			
Indexing	of	Vind	ya

1	2	1	3	3	3
1	1	1	3	5	3
1	7	4	5	3	3
1	9	2	6	4	4
11	10	12	13	4	8
11	10	12	13	4	4

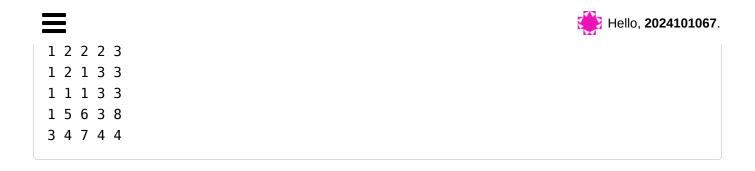
Passwords with Path (In green)

Sample 4

Input

Сору

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Output

2 Copy

Diagram

1	2	2	2	3
1	2	1	3	3 3
1	1	1	3	3
1	5	6	3	8
3	4	7	4	4

Clarifications

Report an issue

No clarifications have been made at this time.

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