
The sum of the last diagonal

X29958_en

Write a program to find the sum of the last diagonal of the matrix. Given matrix M with R rows and C columns. Its last diagonal always contains element $M_{R,C}$

Input

The first line provides two numbers: R and C the number of rows and columns in the matrix respectively. $0 \leq R, C \leq 1000$. Next R lines with C integer numbers follows. All the absolute values of the matrix are less than or equal to 10^9 .

Output

Print one integer number - the sum of the last diagonal.

Sample input 1

```
2 2
1 3
3 1
```

Sample output 1

```
2
```

Sample input 2

```
1 2
1 2
```

Sample output 2

```
2
```

Sample input 3

```
3 2
2 4
4 6
1 1
```

Sample output 3

```
5
```

Problem information

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Generation : 2020-10-18 16:44:36

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