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	Sample output 1
2 2 1 3 3 1	2

Sample input 2	Sample output 2
1 2 1 2	2

Sample input 3	Sample output 3
3 2 2 4 4 6 1 1	5

Problem information

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Generation: 2026-01-25T15:00:03.878Z