Jutge.org

The Virtual Learning Environment for Computer Programming

Superdiagonals

X54207_en

The *superdiagonal* of a matrix *m* is formed by the elements m[i][j] in the matrix for which the column is one position more than the row: j = i + 1 (see https://en.wikipedia.org/wiki/Diagonal: that is, those elements lying along the diagonal just above the main diagonal. Write a program that computes the sums of the superdiagonals of several matrices.

Input

Input is a sequence of cases. Each case starts with a nonnegative integer *n*, followed by a square $n \times n$ matrix of integers.

Output

The sum of the superdiagonal elements of each matrix, in the same order, each in a line of its own.

5 0

0

1

Sample input

3			
0	2	0	
0	0	3	
0	0	0	
4			
1	0	1	1
2	2	0	2
3	3	3	0
4	4	4	4
1			
-1234			
2			
77	1	1	
88	3	99	

Problem information

Author : José Luis Balcázar Generation : 2024-02-04 21:09:08

© *Jutge.org*, 2006–2024. https://jutge.org

Sample output