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## Superdiagonals

## X54207\_en

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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#Superdiagonals>), 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.

<b>Sample input 1</b>	<b>Sample output 1</b>
<pre>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 88 99</pre>	<pre>5 0 0 1</pre>

### Problem information

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