

## Problem 11: Matrices: Sum

Given a square matrix  $m[1..n, 1..n]$ , compute the sum of the lower half triangle.

$$A = M \times \mathbb{Z}$$

$$B = M$$

$$Q = (m' = m)$$

$$R = Q \wedge s = \sum_{k=1}^n \sum_{l=1}^k m[k, l]$$