Problem Statement

1. Define an m x n matrix of zeros and then enters a nested-for loop to fill the locations of the matrix, only if the two indexes differ. **NOT Discussed in the Class**

- The purpose is to create a lower triangular matrix, that is a matrix whose elements below the main diagonal are non-zero, the others are left untouched to their initialized zero value. **NOT Discussed in the Class**

- When the indexes are equal (if condition in the inner loop, which runs over j, the column index), a break is executed and the innermost loop is interrupted with a direct jump to the instruction following the inner loop, which is a print; then control gets to the outer for condition (over the rows, index i), which is evaluated again. **NOT Discussed in the Class**

- If the indexes differ, the assignment is performed, and the counter is incremented by 1. **NOT Discussed in the Class**

- At the end, the program prints the counter ctr, which contains the #number of elements that were assigned. **NOT Discussed in the Class**