1   Homework

Write a C program that computes inverse of a square matrix which is given as input, by using Gauss-Jordan Elimination method. Program can also

- ask the dimension, N, of the input square matrix,

- ask the elements of the input matrix one by one,

- warn the user about the singularity of the input matrix.

Hint: Use static array for the input matrix whose maximum dimension, N, is 10.

Example console screen for a 2×2 **matrix,** $\begin{bmatrix} 1 & -1 \\ 2 & 3 \end{bmatrix}$

Enter the value N, of an NxN matrix: 2
Enter the element (1,1): 1
Enter the element (1,2): -1
Enter the element (2,1): 2
Enter the element (2,2): 3

Inverse of the matrix is:
  0.600   0.200
 -0.400   0.200