

EE204 – Homework 3: Linear Algebra 1
Due Date: March 20, 2017 (15:00)

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 dimensions are 100x100.

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

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

```
0.600  0.200
-0.400 0.200
```