```
>>>
ESTART: D:\Source\&Zteanl\Numer\Naive Gauss Elimination.py \( \)
Enter number for n'n matrix: \( \)
Enter e value: \( 1 - 2 \) 3 - 1
Enter \( \) value: \( 2 - 1 \) 2 1 - 3

Enter \( \) value: \( 2 - 1 \) 2 1 - 3

Enter \( \) value: \( 2 - 1 \) 2 1 - 3

Enter \( \) value: \( 3 - 3 \) - 1 2 1

Enter \( \) value: \( 3 - 3 \) - 1 2 1

Enter \( \) value: \( 5 - 2 \) - 1 2 1

Enter \( \) value: \( 5 - 2 \) - 1 2 1

Enter \( \) value: \( 2 - 1 \) 1 2 1

Enter \( \) value: \( 2 - 1 \) 1 2 1

Enter \( \) value: \( 2 - 1 \) 1 2 1

Enter \( \) value: \( 3 - 1 \) 6 - 3

Enter \( \) value: \( 0.1 \) 6 - 3 2

Enter \( \) value: \( 0.1 \) 6 - 3 2

Enter \( 0 \) value: \( 0.1 \) 6 - 3 2
                                                                                                                                                                                                                                                       4.0 - 1.7142857142857144 * 2.33333333333333 = 0.0

-6.0 - 1.7142857142857144 * -2.0 = -2.571428571428571

-8.0 - 1.7142857142857144 * -4.33333333333333 = -0.5714285714285712

7.0 - 1.7142857142857144 * 1.33333333333333 = 4.7142857142857128
                                                                                                                                                                                                                                                      2.0 / 1.0
Factor: 2.0
-0.66666666666667 - -0.28571428571428596 * 2.33333333333333 = 0.0
6.0 - -0.28571428571428596 * -2.0 = 5.428571428571428
6.66666666666666667 - -0.28571428571428596 * -4.33333333333333 = 5.428571428571429
-0.666666666666666666 - -0.2857142857142857142856 * 1.33333333333333 = -0.2857142857142854
                                                                                                                                                                                                                                                       11.0, 1.0, -2.0, 1.0, 3.0, -1.0) x1 4.0

[0.0, -3.0, 5.0, 0.0, -5.0, -1.0] x2 12.0

[1.0, 3.0, -3.6, -1.0, 2.0, 1.0] x3 -15.0

[5.0, 2.0, -1.0, -1.0, -1.0] x4 -3.0

[-3.0, -1.0, 2.0, 3.0, 1.0, 3.0] x5 16.0
  1.0 / 1.0
Factor: 1.0
                                                                                                                                                                                                                                                       7.33333333333333 - 3.1428571428571437 * 2.33333333333333 = 0.0

-10.0 - 3.1428571428571437 * -2.0 = -3.7142857142857128

-13.33333333333333 - 3.14285714285714287 * -4.33333333333333 = 0.28571428571428825

2.333333333333333 - 3.1428571428571437 * 1.333333333333335 = -1.857142857142859
                                                                                                                                                                                                                                                       1.0 - 1.0 * -1.0 = 2.0

[1.0, 1.0, -2.0, 1.0, 3.0, -1.0] x1 4.0

[0.0, -3.0, 5.0, 0.0, -5.0, -1.0] x2 12.0

[0.0, 2.0, -1.0, -2.0, -1.0, 2.0] x3 -19.0

[5.0, 2.0, -1.0, -1.0, 2.0, 1.0] x4 -3.0

[-3.0, -1.0, 2.0, 3.0, 1.0, 3.0] x5 16.0

[4.0, 3.0, 1.0, -6.0, -3.0, -2.0] x6 -27.0
                                                                                                                                                                                                                                                        5.428571428571428 / -2.571428571428571
Factor: -2.111111111111111
                                                                                                                                                                                                                                                       -3.7142857142857126 / -2.571428571428571
Factor: 1.44444444444444
                                                                                                                                                                                                                                                         -3.7142857142857126 - 1.4444444444444 * -2.571428571428571 = 0.0
0.2857142857142855 - 1.4444444444444 * -0.5714285714285712 = 1.111111111111111
-1.857142857142859 - 1.44444444444444 * .114285714285715 = -8.66666666666666
                                                                                                                                                                                                                                                         | 1.0, 1.0, -2.0, 1.0, 3.0, -1.0| x1 4.0

| 0.0, -2.0, 5.0, 0.0, -5.0, -1.0| x2 12.0

| 0.0, 0.0, 2.333333333333333-2.0, -4.33333333333333, 1.333333333335| x3 -11.0

| 0.0, 0.0, 0.0, -2.51428571428571, -0.5714285714285712, 4.714285714285715| x4 -16.142857142857142

| 0.0, 0.0, 0.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0, -2.0,
 1.111111111111111 / 4.22222222222222
Factor: 0.2631578947368425
                                                                                                                                                                                                                                                         1.11111111111111 - 0.2631578947368425 * 4.2222222222223 = 0.0
-8.66666666666666 - 0.2631578947368425 * 9.6666666666666 = -11.210526315789476
                                                                                                                                                                                                                                                         \begin{bmatrix} 1.0, 1.0, -2.0, 1.0, 3.0, -1.0 \end{bmatrix} & \times 1 & 4.0 \\ [0.0, -3.0, 5.0, 0.0, -5.0, -1.0] & \times 2 & 12.0 \\ [0.0, 0.0, 0.2, 2.3393333333333, -2.0, -4.3393333333333, 1.333333333333] & 3 & -11.0 \\ [0.0, 0.0, 0.2, 2.33933333333333, -2.0, -4.33933333333333, 1.333333333333] & x & -11.0 \\ [0.0, 0.0, 0.0, 0.0, -2.5714285714285714, -0.5714285714285712, -4.7142857142857125] & x & -16.142857142857142 \\ [0.0, 0.0, 0.0, 0.0, 0.0, 0.0, -11.210526315789476] & x & 11.21052631578948 \\ \end{bmatrix} 
 11.0, 1.0, -2.0, 1.0, 3.0, -1.0] x1 4.0

[0.0, -3.0, 5.0, 0.0, -5.0, -1.0] x2 12.0

[0.0, 2.0, -1.0, -2.0, -1.0, 2.0] x3 -15.0

[0.0, -3.0, 9.0, -6.0, -13.0, 6.0] x4 -23.0

[0.0, -3.0, 9.0, -6.0, -13.0, 6.0] x5 28.0

[0.0, 2.0, 9.0, -10.0, -15.0, 2.0] x6 -43.0
                                                                                                                                                                                                                                                         0 / -3.0
ctor: -0.6666666666666666
[1.0, 1.0, -2.0, 1.0, 3.0, -1.0] x1 4.0

[0.0, -3.0, 5.0, 0.0, -5.0, -1.0] x2 12.0

[0.0, 0.0, 2.3, 2.3333333333333, -2.0, -4.333333333333, 1.333333333333] x3 -11.0

[0.0, 0.0, 0.2, 2.571428571428571, -0.5714285714285712, 4.7142857142857135] 4.00000000000001 -16.142857142857142

[0.0, 0.0, 0.0, 0.0, 0.4, 2.22222222222222, 9.666666666666666] 1.9999999999999 -1.2222222222222285

[0.0, 0.0, 0.0, 0.0, 0.0, -11.210526315789476] -1.00000000000000000 1.21052631578948
 -3.0 - 1.0 * -3.0 = 0.0

9.0 - 1.0 * 5.0 = 4.0

-6.0 - 1.0 * 0.0 = -6.0

-13.0 - 1.0 * -5.0 = -8.0

6.0 - 1.0 * -1.0 = 7.0
                                                                                                                                                                                                                                                            [1.0, 1.0, -2.0, 1.0, 3.0, -1.0] x1 4.0 [0.0, -3.0, 5.0, 0.0, -5.0, -1.0] x2 12.0 [0.0, -3.0, 5.0, 0.0, -5.0, -1.0] x2 12.0 [0.0, 0.0, 2.33333333333, -2.0, -4.333333333333333, 1.3333333333333] x3 -11.0 [0.0, 0.0, 4.0, -6.0, -8.0, 7.0] x4 -15.0 [0.0, 2.0, -4.0, 6.0, 10.0, 0.0] x5 28.0 [0.0, 2.0, -4.0, 6.0, 10.0, 0.0] x5 28.0 [0.0, -1.0, 9.0, -30.0, -15.0, 2.0] x6 -43.0
                                                                                                                                                                                                                                                        [0.0, 0.0, 2.3333333333333, -2.0, -4.3333333333333, 1.333333333333] 2.999999999999973 -11.0
[0.0, 0.0, 0.0, -2.571428571428571, -0.5714285712485712, 4.7142857142857135] 4.00000000000001 -16.142857142857142
[0.0, 0.0, 0.0, 0.0, 4.2222222222222, 9.6666666666666] 1.99999999999992 -1.222222222222285
[0.0, 0.0, 0.0, 0.0, 0.0, -11.210526315789476] -1.0000000000000002 11.21052631578948
 -1.0 / -3.0
Factor: 0.3333333333333333
```