Terminal solutions for lecture 1. Granted, there could be some mistakes so remain curious and check own results very well.

Lecture 1

```
A       Matrix 3x3:
              1               2               3
              2              -4               6
              3              -9              -3

b       Vector 3D:
              5              18               6
The LU version in Eq. (2.3.14)  Matrix 3x3:
              1               2               3
              3             -15             -12
              2        0.533333             6.4

L       Matrix 3x3:
              1               0               0
              3               1               0
              2        0.533333               1

U       Matrix 3x3:
              1               2               3
              0             -15             -12
              0               0             6.4

x       Vector 3D:
              1              -1               2
L*U     Matrix 3x3:
              1               2               3
              3              -9              -3
              2              -4               6

L*U*x   Vector 3D:
              5               6              18
A*x     Vector 3D:
              5              18               6

Pivoting bookkeeping from partial pivoting:
              0               2               2
```