

CP.2.2.1.a, Sauer3

Use code fragments for Gaussian elimination in the previous section to write a python script to take a matrix A as input and output L and U . No row exchanges are allowed—the program should be designed to shut down if it encounters a zero pivot. Check your program by factoring the matrices in EX.2.2.2.a.

$$(a) \begin{pmatrix} 3 & 1 & 2 \\ 6 & 3 & 4 \\ 3 & 1 & 5 \end{pmatrix}$$