Supplementary Problem to Hw 5
(Please, attach this paper to your Hw 5.)
In each of the following cases,
   I. Find an LU factorization of A, and
  II. Use this to solve $Ax = b$.
 III. Check your answer.

(a) $A = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 2 & 3 \\ 0 & 2 & 1 \end{bmatrix}, b = \begin{bmatrix} -1 \\ 0 \\ 1 \end{bmatrix}$

(b) $A = \begin{bmatrix} 2 & -3 & 0 \\ 4 & -5 & 1 \\ 2 & 0 & 4 \end{bmatrix}, b = \begin{bmatrix} 8 \\ 15 \\ 1 \end{bmatrix}$