## Ralph's Decomposition

This is a continuation of Ralph's structure.

## Required:

1. Use Gaussian elimination to find a solution to $\mathrm{Ay}=\mathrm{x}$. How does the solution compare to the solution based on a spanning tree?
2. Find lower and upper triangular matrices $L$ and $U$ such that $L U=A$. How does $L U$ decomposition compare to Gaussian elimination?
Hint: you may find it convenient to utilize row exchanges.
