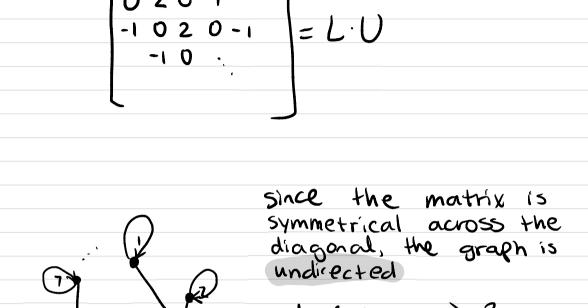
Carly Smith LU factorization of a penta-diagonal matrix:

$$\begin{bmatrix} 2 & 0 & -1 \\ 0 & 2 & 0 & -1 \\ -1 & 0 & 2 & 0 & -1 \\ -1 & 0 & \ddots \end{bmatrix} = L \cdot U$$



deg(1,2,n,n-1)=3

deg(else) = 4

Since there is always an oblique grid of zeroes, they never get filled in.

Land U graphs only differ from A

In that they are directed, due to the

Cact that they are Lower & upper diagonal matrices