

Banded LU factorization vs. full LU factorization

	general matrices	banded matrices with band widths q, p
LU factorization	$\approx \frac{2}{3}n^3$	$\approx 2pqn$
forward substitution	$\approx n^2$	$\approx 2pn$
back substitution	$\approx n^2$	$\approx 2qn$

Ex.: computational times (MATLAB) for LU factorization of a tridiagonal matrix

