Original Matrix A — nz = 28
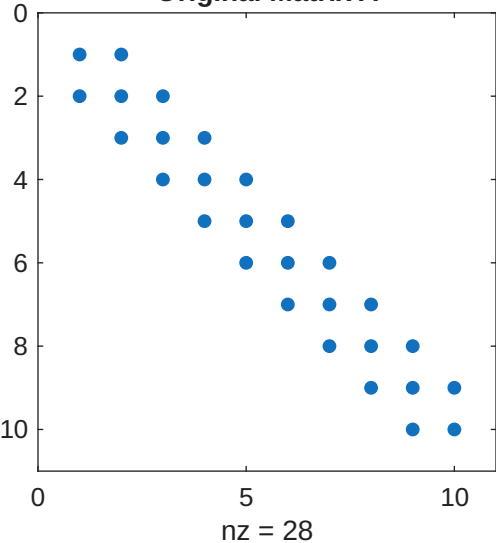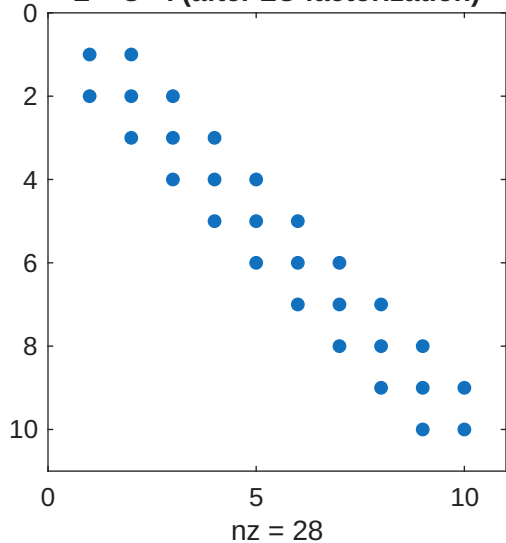
L + U - I (after LU factorization) — nz = 28

Fill-in (new non-zeros in L+U) — nz = 18