

Alt ucgen atris. (Lower triangular matrices)

$$A = \begin{bmatrix} 3 & 0 & 0 \\ 5 & 2 & 0 \\ 3 & 7 & 9 \end{bmatrix}, \quad B = \begin{bmatrix} 3 & 0 & 0 \\ 0 & 2 & 0 \\ 3 & 0 & 9 \end{bmatrix}, \quad C = \begin{bmatrix} 3 & 0 & 0 & 0 \\ 0 & 2 & 0 & 0 \\ 3 & 0 & 9 & 0 \\ 0 & 0 & 0 & 7 \end{bmatrix}, \quad D = \begin{bmatrix} 3 & 0 & 0 & 0 \\ 1 & 2 & 0 & 0 \\ 0 & 0 & 9 & 0 \\ 0 & 0 & 0 & 7 \end{bmatrix}$$

Ust Ucgen Matris. (Upper triangular matrices)

$$A = \begin{bmatrix} 3 & 4 & 1 \\ 0 & 2 & 8 \\ 0 & 0 & 9 \end{bmatrix}, \quad B = \begin{bmatrix} 3 & 0 & 4 \\ 0 & 2 & 0 \\ 0 & 0 & 9 \end{bmatrix}, \quad C = \begin{bmatrix} 3 & 6 & 0 & 3 \\ 0 & 2 & 0 & 2 \\ 0 & 0 & 9 & 0 \\ 0 & 0 & 0 & 7 \end{bmatrix}, \quad D = \begin{bmatrix} 3 & 0 & 0 & 0 \\ 0 & 2 & 7 & 0 \\ 0 & 0 & 9 & 0 \\ 0 & 0 & 0 & 7 \end{bmatrix},$$

Diger Matrisler.

$$P = \begin{bmatrix} 3 & 0 & 0 & 0 \\ 0 & 2 & 0 & 0 \\ 0 & 0 & 9 & 0 \\ 0 & 0 & 0 & 7 \end{bmatrix}, \quad Q = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}, \quad R = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}, \quad T = \begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$$

Kosegen Matris.
Diagonal Matrix

Birim Matris
unit matrix (4x4)

Birim Matris
unit matrix (2x2),

Sifir matris
zero matrix

Echolen Matris: a)Sifir satir varsa, matrisin altinda olmalidir.

b)satirdaki ilk sifir olmayan sayi, ust satirin ilk sifir olmayan elemaninin solunda olmalidir.

$$A = \begin{bmatrix} 1 & 2 & 5 \\ 0 & 4 & 3 \\ 0 & 0 & 3 \end{bmatrix}, \quad B = \begin{bmatrix} 1 & 2 & 5 \\ 0 & 0 & 0 \\ 0 & 0 & 3 \end{bmatrix}, \quad C = \begin{bmatrix} 1 & 2 & 5 \\ 0 & 0 & 1 \\ 0 & 0 & 3 \end{bmatrix}, \quad D = \begin{bmatrix} 0 & 2 & 5 \\ 1 & 2 & 1 \\ 0 & 0 & 3 \end{bmatrix}, \quad E = \begin{bmatrix} 1 & 2 & 5 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix},$$

$$F = \begin{bmatrix} 1 & 2 & 5 \\ 0 & 0 & 1 \\ 0 & 0 & 0 \end{bmatrix}, \quad G = \begin{bmatrix} 0 & 2 & 5 \\ 0 & 0 & 1 \\ 0 & 0 & 0 \end{bmatrix}, \quad H = \begin{bmatrix} 0 & 0 & 0 \\ 1 & 2 & 9 \\ 0 & 5 & 7 \end{bmatrix}, \quad J = \begin{bmatrix} 3 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 7 \end{bmatrix}$$

$$K = \begin{bmatrix} 1 & 2 & 5 & 6 & 0 & 9 \\ 0 & 2 & 5 & 6 & 6 & 7 \\ 0 & 0 & 0 & 0 & 3 & 8 \end{bmatrix}, \quad L = \begin{bmatrix} 1 & 2 & 5 & 6 & 0 & 9 \\ 0 & 0 & 5 & 6 & 6 & 7 \\ 0 & 0 & 0 & 0 & 3 & 8 \\ 0 & 0 & 0 & 0 & 0 & 8 \end{bmatrix}, \quad M = \begin{bmatrix} 1 & 2 & 5 & 6 & 0 & 9 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 5 & 6 & 6 & 7 \\ 0 & 0 & 0 & 0 & 3 & 8 \end{bmatrix}$$

$$N = \begin{bmatrix} 1 & 2 & 0 & 0 & 0 & 0 \\ 0 & 5 & 0 & 0 & 0 & 9 \\ 0 & 0 & 0 & 6 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 2 \end{bmatrix}, \quad P = \begin{bmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 2 \\ 0 & 5 & 0 & 2 & 0 & 9 & 0 \\ 0 & 0 & 0 & 0 & 0 & 2 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 8 \end{bmatrix}, \quad Q = \begin{bmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 2 \\ 0 & 5 & 0 & 2 & 0 & 9 & 0 \\ 0 & 0 & 0 & 0 & 0 & 2 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 8 \end{bmatrix}$$

A,E ,F,G ,J,K,L,N,P echolen form., C,D,H,M,Q echolen formda degil.