Example of diagonal dominance. Q-1 Consult following enlot diagonal dominance Halo  $\begin{bmatrix} 6 & -3 & 27 & R_1 \\ 6 & 3 & 12 & R_2 \\ 4 & 11 & -1 & R_3 \end{bmatrix}$ 20/11- Interhanging R2~ R3  $\begin{bmatrix}
8 & -3 & 2 \\
4 & 11 & -1
\end{bmatrix}$  is diagonal dominance  $\begin{bmatrix}
6 & 3 & 12
\end{bmatrix}$ Consider the System of equation. Consulthe system so that the Matrix is diagonal dominance.  $x_1+7x_2-x_3=3$   $5x_1+x_2+x_3=9$   $5x_1+x_2+x_3=9$   $5x_1+x_2+x_3=9$   $5x_1+x_2+x_3=9$   $5x_1+x_2+x_3=17$   $-3x_1+2x_2+7x_3=17$  $\Delta 01^{n}1$  - Or Reamange equations as follows also. 1712 + 121 - 123 = 3 | Now Maturi will be diagonal dominant 12 + 511 + 123 = 9 | The solution appear. & x2 -3x1+7x3=17 Jun order x2, x, and x