

$$M = \left(\begin{array}{ccc|cc} & \overset{N}{1} & \overset{N}{2} & \overset{N}{3} & 4 & 5 \\ \overset{N}{6} & \overset{N}{7} & \overset{N}{8} & \overset{N}{9} & \overset{N}{10} & \\ \overset{N}{11} & \overset{N}{12} & \overset{N}{13} & 14 & 15 & \\ 16 & 17 & 18 & 19 & 20 & \end{array} \right) \xrightarrow{\text{Transpose}} M^T = \left(\begin{array}{ccc|cc} & \overset{N^T}{1} & \overset{N^T}{6} & \overset{N^T}{11} & 16 & \\ \overset{N^T}{2} & \overset{N^T}{7} & \overset{N^T}{12} & 17 & & \\ \overset{N^T}{3} & \overset{N^T}{8} & \overset{N^T}{13} & 18 & & \\ 4 & 9 & 14 & 19 & & \\ 5 & 10 & 15 & 20 & & \end{array} \right)$$