

$$R_{(j-i)} = \begin{pmatrix} R[0] & R[1] & \cdots & R[N] \\ R[1] & R[0] & \cdots & R[N-1] \\ \vdots & \vdots & \ddots & \vdots \\ R[N] & R[N-1] & \cdots & R[0] \end{pmatrix}$$