$$\left(\mathcal{F}\{\underbrace{\Re(x)}_{r}+\mathrm{j}\ \underbrace{\Im(x)}_{i}\}=\underbrace{R+\mathrm{j}\,I}_{F}\right)\Leftrightarrow\left(\left\{\begin{array}{rcll} R[0] & = & \Re(F[0]) & \\ I[0] & = & \Im(F[0]) & \\ R[n] & = & \frac{1}{2}\left(F[n]+(F[K-n])^{*}\right), & n\in[1\ldots K-1] \\ I[n] & = & -\frac{\mathrm{j}}{2}\left(F[n]-(F[K-n])^{*}\right), & n\in[1\ldots K-1] \end{array}\right.\right)$$