

$$\left(\begin{array}{rcl} y[2k] & = & x[k] \\ y[2k+1] & = & 0 \end{array} \right) \Leftrightarrow \left\{ \begin{array}{l} \underbrace{\mathcal{F}_{k < 2K} \{y[k]\}[n]}_{Y[n]} = \underbrace{\mathcal{F}_{k < K} \{x[k]\}[n]}_{X[n]}, \quad n \in [0 \dots K-1] \\ \underbrace{\mathcal{F}_{k < 2K} \{y[k]\}[n]}_{Y[n]} = \underbrace{\mathcal{F}_{k < K} \{x[k]\}[n-K]}_{X[n-K]}, \quad n \in [K \dots 2K-1] \end{array} \right.$$