x[n]	X[k]
$x^*[n]$	$X^*[\langle -k \rangle_N]$
$x^*[\langle -n \rangle_N]$	$X^*[k]$
$Re\{x[n]\}$	$X_{\text{pcs}}[k] = \frac{1}{2} \{ X[\langle k \rangle_N] + X^*[\langle -k \rangle_N] \}$
$j \operatorname{Im}\{x[n]\}$	$X_{\text{pca}}[k] = \frac{1}{2} \{ X[\langle k \rangle_N] - X^*[\langle -k \rangle_N] \}$
$x_{pcs}[n]$	$Re\{X[k]\}$
$x_{pca}[n]$	$j \operatorname{Im}\{X[k]\}$

conjugate-antisymmetric parts of X[k], respectively.

N-point DFT

Length-N Sequence