

\mathbf{C}^i = block-circulant matrix of \mathbf{h}^i

$$\begin{array}{c}
 \left(\begin{array}{cccc}
 h_1^5 & h_N^5 & \dots & h_2^5 \\
 h_2^5 & h_1^5 & & \vdots \\
 \vdots & h_2^5 & & \vdots \\
 & \vdots & & h_N^5 \\
 h_N^5 & h_{N-1}^5 & \dots & h_1^5
 \end{array} \right)
 \end{array}
 \mathbf{C}^6
 \begin{array}{c}
 \left(\begin{array}{ccc}
 \mathbf{C}^1 & \mathbf{C}^2 & 0 \\
 \hdashline
 0 & \mathbf{C}^3 & \mathbf{C}^4
 \end{array} \right)
 \end{array}
 \begin{array}{c}
 \left(\begin{array}{c}
 x^6 \\
 \vdots \\
 x^5 \\
 \vdots \\
 x^4 \\
 \vdots \\
 x^3 \\
 \vdots \\
 x^2 \\
 \vdots \\
 x^1
 \end{array} \right)
 \approx
 \left(\begin{array}{c}
 y
 \end{array} \right)
 \end{array}$$

Dictionary \mathbf{D}