

$$\text{gather}(f, \begin{array}{|c|c|c|c|} \hline x_{f(1)} & x_{f(2)} & \cdots & x_{f(n)} \\ \hline \end{array}) = \begin{array}{|c|c|c|c|} \hline x_1 & x_2 & \cdots & x_n \\ \hline \end{array}$$

$$\text{scatter}(f, \begin{array}{|c|c|c|c|} \hline x_1 & x_2 & \cdots & x_n \\ \hline \end{array}) = \begin{array}{|c|c|c|c|} \hline x_{f(1)} & x_{f(2)} & \cdots & x_{f(n)} \\ \hline \end{array}$$