

3.3.4 Eight Queens Recombination cut and cross fill method

$$\begin{array}{c|cccc} 1 & 3 & 5 & & \\ \hline 8 & 7 & 6 & & \end{array} \begin{array}{cccc} 2 & 6 & 4 & 7 & 8 \\ 5 & 4 & 3 & 2 & 1 \end{array}$$

Solution

$$\begin{array}{c|cccc} 1 & 3 & 5 & & \\ \hline 8 & 7 & 6 & & \end{array} \begin{array}{cccc} \underline{4} & \underline{2} & \underline{8} & \underline{7} & \underline{6} \\ \uparrow & \nwarrow & & & \end{array} \begin{array}{cccc} \cancel{5} & 4 & \cancel{3} & 2 & \cancel{1} \end{array}$$

$$\begin{array}{c|cccc} 1 & 3 & 5 & & \\ \hline 8 & 7 & 6 & & \end{array} \begin{array}{cccc} 2 & \cancel{6} & 4 & \cancel{7} & \cancel{8} \\ \downarrow & \swarrow & & & \end{array} \begin{array}{cccc} \underline{2} & \underline{4} & \underline{1} & \underline{3} & \underline{5} \end{array}$$