

A_1 A_2 A_3 A_4 A_5

$$\begin{array}{l} q_1 \\ q_2 \\ q_3 \\ q_4 \\ q_5 \end{array} \left[\begin{array}{cccccc} 0 & 1 & 1 & 0 & 1 \\ 1 & 1 & 1 & 0 & 1 \\ 1 & 0 & 0 & 1 & 1 \\ 0 & 0 & 1 & 0 & 0 \\ 1 & 1 & 1 & 0 & 0 \end{array} \right]$$