

$$A = \begin{array}{c|ccccccc} & 25 & 36 & 48 & 57 & 64 & 75 & 82 \\ \hline 25 & 0 & 1 & 1 & 0 & 0 & 0 & 0 \\ 36 & 1 & 0 & 1 & 0 & 0 & 0 & 0 \\ 48 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 57 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 64 & 0 & 0 & 1 & 0 & 0 & 1 & 0 \\ 75 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \\ 82 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \end{array}$$