

$$\begin{aligned} A &\in \mathbb{R}^{999 \times 1001} \\ B &\in \mathbb{R}^{1001 \times 1002} \\ C &\in \mathbb{R}^{1002 \times 998} \\ D &\in \mathbb{R}^{998 \times 1000} \end{aligned}$$

