

Dimension: 3

Epsilon:1e-06

$$\left(\begin{pmatrix} 1 & -1 & -1 \\ 0 & 1 & -1 \\ 0 & 0 & 1 \end{pmatrix} + 1e-06 \begin{pmatrix} 1 & -1 & -1 \\ 1 & 1 & -1 \\ 1 & 1 & 1 \end{pmatrix}\right)x = \begin{pmatrix} -1 \\ -1 \\ 1 \end{pmatrix}$$

Condition number: 5.4114513925096235

Dimension: 3

Epsilon:1e-05

$$\left(\begin{pmatrix} 1 & -1 & -1 \\ 0 & 1 & -1 \\ 0 & 0 & 1 \end{pmatrix} + 1e-05 \begin{pmatrix} 1 & -1 & -1 \\ 1 & 1 & -1 \\ 1 & 1 & 1 \end{pmatrix}\right)x = \begin{pmatrix} -1 \\ -1 \\ 1 \end{pmatrix}$$

Condition number: 5.411246785600582

Dimension: 3

Epsilon:0.0001

$$\left(\begin{pmatrix} 1 & -1 & -1 \\ 0 & 1 & -1 \\ 0 & 0 & 1 \end{pmatrix} + 0.0001 \begin{pmatrix} 1 & -1 & -1 \\ 1 & 1 & -1 \\ 1 & 1 & 1 \end{pmatrix}\right)x = \begin{pmatrix} -1 \\ -1 \\ 1 \end{pmatrix}$$

Condition number: 5.409201784384474

Dimension: 3

Epsilon:0.001

$$\left(\begin{pmatrix} 1 & -1 & -1 \\ 0 & 1 & -1 \\ 0 & 0 & 1 \end{pmatrix} + 0.001 \begin{pmatrix} 1 & -1 & -1 \\ 1 & 1 & -1 \\ 1 & 1 & 1 \end{pmatrix}\right)x = \begin{pmatrix} -1 \\ -1 \\ 1 \end{pmatrix}$$

Condition number: 5.388858003640518

Dimension: 6

Epsilon:1e-06

$$\left(\begin{pmatrix} 1 & -1 & -1 & -1 & -1 & -1 \\ 0 & 1 & -1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix} + 1e-06 \begin{pmatrix} 1 & -1 & -1 & -1 & -1 & -1 \\ 1 & 1 & -1 & -1 & -1 & -1 \\ 1 & 1 & 1 & -1 & -1 & -1 \\ 1 & 1 & 1 & 1 & -1 & -1 \\ 1 & 1 & 1 & 1 & 1 & -1 \\ 1 & 1 & 1 & 1 & 1 & 1 \end{pmatrix} \right) x = \begin{pmatrix} -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ 1 \end{pmatrix}$$

Condition number: 69.8415813013427

Dimension: 6

Epsilon:1e-05

$$\left(\begin{pmatrix} 1 & -1 & -1 & -1 & -1 & -1 \\ 0 & 1 & -1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix} + 1e-05 \begin{pmatrix} 1 & -1 & -1 & -1 & -1 & -1 \\ 1 & 1 & -1 & -1 & -1 & -1 \\ 1 & 1 & 1 & -1 & -1 & -1 \\ 1 & 1 & 1 & 1 & -1 & -1 \\ 1 & 1 & 1 & 1 & 1 & -1 \\ 1 & 1 & 1 & 1 & 1 & 1 \end{pmatrix} \right) x = \begin{pmatrix} -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ 1 \end{pmatrix}$$

Condition number: 69.80552543514018

Dimension: 6

Epsilon:0.0001

$$\left(\begin{pmatrix} 1 & -1 & -1 & -1 & -1 & -1 \\ 0 & 1 & -1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix} + 0.0001 \begin{pmatrix} 1 & -1 & -1 & -1 & -1 & -1 \\ 1 & 1 & -1 & -1 & -1 & -1 \\ 1 & 1 & 1 & -1 & -1 & -1 \\ 1 & 1 & 1 & 1 & -1 & -1 \\ 1 & 1 & 1 & 1 & 1 & -1 \\ 1 & 1 & 1 & 1 & 1 & 1 \end{pmatrix} \right) x = \begin{pmatrix} -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ 1 \end{pmatrix}$$

Condition number: 69.44705155216691

Dimension: 6

Epsilon:0.001

$$\left(\begin{pmatrix} 1 & -1 & -1 & -1 & -1 & -1 \\ 0 & 1 & -1 & -1 & -1 & -1 \\ 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 0 & 1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix} + 0.001 \begin{pmatrix} 1 & -1 & -1 & -1 & -1 & -1 \\ 1 & 1 & -1 & -1 & -1 & -1 \\ 1 & 1 & 1 & -1 & -1 & -1 \\ 1 & 1 & 1 & 1 & -1 & -1 \\ 1 & 1 & 1 & 1 & 1 & -1 \\ 1 & 1 & 1 & 1 & 1 & 1 \end{pmatrix} \right) x = \begin{pmatrix} -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ 1 \end{pmatrix}$$

Condition number: 66.05923671098316