- 1 Dimension: 3
- 2 Epsilon:1e-06

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

Condition number: 5.4114513925096235

- 3 Dimension: 3
- 4 Epsilon:1e-05

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

Condition number: 5.411246785600582

- 5 Dimension: 3
- 6 Epsilon:0.0001

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

Condition number: 5.409201784384474

- 7 Dimension: 3
- 8 Epsilon:0.001

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

Condition number: 5.388858003640518

9 Dimension: 6

10 Epsilon:1e-06

Condition number: 69.8415813013427

11 Dimension: 6

12 Epsilon:1e-05

Condition number: 69.80552543514018

13 Dimension: 6

14 Epsilon:0.0001

Condition number: 69.44705155216691

15 Dimension: 6

16 Epsilon:0.001

Condition number:66.05923671098316