

```

\documentclass{article}
\usepackage{blkarray}
\newcommand{\matindex}[1]{\mbox{\scriptsize#1}}
\begin{document}
  \[
x=\begin{blockarray}{cccc}
\matindex{\$x_{1}\$} & \matindex{\$x_{2}\$} & \matindex{\$x_{3}\$} & &
\matindex{\$x_{4}\$} & \matindex{\$x_{5}\$} & \matindex{\$x_{6}\$} & &
\matindex{\$x_{7}\$} & \matindex{\$x_{8}\$} & \matindex{\$x_{9}\$} & &
\matindex{\$x_{10}\$} & \matindex{\$x_{11}\$} & \matindex{\$x_{12}\$} & &
& \\
\begin{block}{(ccc)c}
1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 0 & 0 & \matindex{\$x_{1}\$} \\
1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \matindex{\$x_{2}\$} \\
1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \matindex{\$x_{3}\$} \\
1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 0 & \matindex{\$x_{4}\$} \\
1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \matindex{\$x_{5}\$} \\
1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 7 & 0 & 0 & 0 & \matindex{\$x_{6}\$} \\
1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 3 & 0 & 0 & 0 & \matindex{\$x_{7}\$} \\
1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \matindex{\$x_{8}\$} \\
1 & 0 & 0 & 0 & 0 & 0 & 0 & 7 & .0 & 0 & 0 & 0 & \matindex{\$x_{9}\$} \\
1 & 0 & 0 & 0 & 0 & 0 & 0 & 7 & .0 & 0 & 0 & 0 & \matindex{\$x_{10}\$} \\
1 & 0 & 0 & 0 & 0 & 0 & 0 & 7 & .0 & 0 & 0 & 0 & \matindex{\$x_{11}\$} \\
1 & 0 & 0 & 0 & 0 & 0 & 0 & 7 & .0 & 0 & 0 & 0 & \matindex{\$x_{12}\$} \\
\end{block}
& \\
\end{block}
\end{blockarray}
\]
\end{document}

```