NAME:

1. Define a Python function \texttt{norm} that takes as input a one dimensional array \( x \) of \( n \) floats and returns its norm computed as

\[ \sqrt{x_0^2 + x_1^2 + \cdots + x_{n-1}^2}. \]

The only input argument of \texttt{norm} is \( x \).

2. In a Python session, using \texttt{numpy.linalg} solve the linear system

\[
\begin{aligned}
2x_1 + 3x_2 &= 9 \\
4x_1 + 5x_2 &= 7.
\end{aligned}
\]

Give not only the result, but also all relevant Python commands.