Show that the vectors

$$\begin{bmatrix} 1 \\ 2 \\ 1 \end{bmatrix}, \begin{bmatrix} 1 \\ 3 \\ 1 \end{bmatrix}, \begin{bmatrix} 1 \\ 4 \\ 1 \end{bmatrix}$$

do not span $\mathbb{R}^3$ by giving a vector not in their span.

$$\begin{bmatrix} \square \\ \square \\ \square \end{bmatrix}$$

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do not span $\mathbb{R}^3$ by giving a vector not in their span.

$$\begin{bmatrix} \boxed{1} \\ \boxed{0} \\ \boxed{2} \end{bmatrix}$$