There are more than one integer values of $a$ for which the following system of equations in $x, y, z$ has no solutions:

$$
\begin{aligned}
& a x+y+2 z=0 \\
& x+2 y+z=\mathrm{b} \\
& 2 x+y+a z=0
\end{aligned}
$$

What is the smallest integer value of $a$ for which the above system has no solutions? Fill in the required integer value into the text box. Do not leave any leading or trailing spaces.

