HackerRank

Linear Algebra Foundations #8 -Systems of Equations

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

$$a x + y + 2 z = 0$$

 $x + 2 y + z = b$
 $2 x + y + a z = 0$

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.