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$$x = \begin{pmatrix} 1 & 2 & 0 & 2 \\ 0 & 1 & 2 & 1 \\ 1 & 2 & 3 & 4 \\ 1 & 1 & 1 & 1 \end{pmatrix}, y = \begin{pmatrix} 0 & 1 & 2 & 1 \\ 1 & 2 & 3 & 4 \\ 1 & 1 & 1 & 1 \\ 1 & 0 & 0 & 1 \end{pmatrix} \text{ and } z = \begin{pmatrix} 1 & 2 & 3 & 4 \\ 1 & 1 & 1 & 1 \\ 1 & 0 & 0 & 1 \\ 1 & 0 & 0 & 1 \end{pmatrix} \text{ Then } xyz = 1 \text{ but } yxz \neq 1$$

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Solution. (I will omit the proof that  $R = \mathbb{Z}$  is a group.) Given  $a, b, c \in \mathbb{Z}$ , note: (a)  $a \sim b$  implies  $b \sim a$ ; (b)  $a \sim b$  and  $b \sim c$  implies  $a \sim c$ ; (c) if  $a \sim b$  and  $b \sim c$  then  $a \sim c$ ; so  $\sim$  is an equivalence relation. Next, we show that the binary operation  $+$  on  $R = \mathbb{Z}$  given by  $a + b = a + b$  is well defined. Suppose  $a \sim a'$  and  $b \sim b'$  for some  $a, a', b, b' \in \mathbb{Z}$ .

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