Preliminary problems. These should be submitted to Gradescope before Thursday discussion.
(P1) For each nonzero element $[a]_{12} \in \mathbb{Z}_{12}$, find the number of times $[a]_{12}$ must be added to itself to obtain $[0]_{12}$. For example, since

$$
[3]_{12}+[3]_{12}+[3]_{12}+[3]_{12}=[0]_{12}
$$

we conclude $[3]_{12}$ must be added to itself 4 times to obtain $[0]_{12}$.

