Name:
Problem 1: In this problem we will explore Lemma 1 of Section 6. Let $p=11$ and $a=4$.

For each of the following integers, compute their least residue modulo 11 :

$$
4,2 \cdot 4,3 \cdot 4,4 \cdot 4,5 \cdot 4,6 \cdot 4,7 \cdot 4,8 \cdot 4,9 \cdot 4,10 \cdot 4
$$

What do you notice? Write one sentence.

