Another problem.

The Problem.

If n is odd, multiply by five and add one. If n is even, divide by two. What happens?

I try a couple cases.

$$10 \rightarrow 5 \rightarrow 26 \rightarrow 13 \rightarrow 66 \rightarrow 33 \rightarrow 166 \rightarrow \cdots$$
$$3 \rightarrow 16 \rightarrow 8 \rightarrow 4 \rightarrow 2 \rightarrow 1 \rightarrow 6 \rightarrow 3 \rightarrow \cdots$$

You try a few cases.

$$9 \rightarrow$$

$$14 \rightarrow$$

$$12 \rightarrow$$

$$18 \rightarrow$$

$$20 \rightarrow$$

$$100 \rightarrow$$

$$49 \rightarrow$$

In general?