Assign 3 Q 2

Claim: For all k and for any Acc: $pow_tl(n, k, Acc) = Acc * pow(n, k)$ Proof will be by induction on k.

Base Case:

Induction Hypothesis:

$$pow_tl(n, k, Acc) = Acc * pow(n, k)$$

Induction Step:

Show pow_tl(n, k+1, Acc) = Acc * pow(n, k+1)

This completes the proof