CSci 3501 Assignment 2
Due Friday, September 12 in class

Problem 1 (6 points). Prove the following:

- $n! \in \omega(2^n)$
- $n! \in o(n^n)$

Problem 2 (6 points). Exercise 3-4 p. 59 parts d, e. You have to either prove the claim or give a counterexample.

Problem 3 (6 points). Exercise 2.1-2 p. 21. Write the pseudocode for the procedure (minor differences in pseudocode notations, such as adding brackets, are OK). Additionally, please write the loop invariant for the new procedure and show that it holds.