CMSC 441
Homework 2

Reading Assignment:
- Listen to Peer Gynt's "In the Hall of the Mountain King"
- Read Chapter 4 of the text

Homework:

- Simplify $\prod_{j=0}^{n-1}\left(2{\cdot}4^{j}\right)$ as much as possible

- Change the variable of summation in $\sum_{k=0}^{6}\dfrac{1}{k+1}$ from k to $j = k+1$

- Use the definition of $\log_b a$, i.e., $a = b^{\log_b a}$, to prove that
$$a^{\log_b c} = c^{\log_b a}$$

- Compute $\lg^{*}(5)$

- Exercise 4.2-1, page 82