Review from last Thursday’s Class
Koenig & Moo: Chapter 5.1-5.5

- Review of week 3 lab:
  - indexing vs. push_back for vectors,
  - structure example,
  - use of sort and comparison functions
- class list example, and erasing from vectors in particular

Today’s Class — Programming Examples
Finish Koenig & Moo: Chapter 5.1-5.5

- Iterators and iterator operations
- Lists as a different sequential container class.
- Differences between lists and vectors
- Prime number example

For most of this we will go back to the notes from Thursday. After completing this discussion, we will consider the following example.

Prime Numbers: Sieve of Eratosthenes

- Finding all primes less than a given integer, \( n \)
- Sieve algorithm is a “casting out” algorithm: each new prime is used to cast out all of its multiples from a list of potential primes.
- We will implement this in class using the skeleton provided.
- We will also use this to illustrate algorithm tracing and debugging.