CSE 232 SS13 Lab Session 12

1. Queue Review
   1. FIFO
   2. Array implementation
   3. Linked implementation
   4. Double Ended Queue
   5. Priority Queue
2. Template Functions
   1. Compiler automatically generates machine code for each combination of template parameters the user invokes the function with.
   2. Not particularly useful for what we're doing.
3. Template Classes
   1. One use of templates: generalized containers – user chooses the element type
   2. Compiler automatically generates machine code for every combination of template parameters the template is invoked with.
      1. Template itself is not a class.
      2. Constructor parameters are used at runtime.
   3. Template class declaration and definition go together in .h file
      1. Each member function must also be templated manually
      2. The function definitions also need to be compiled for every combination of template parameters the user invokes, so they must be #included in the user's code.
4. Lab 12
   1. Show and label all member variables and dynamically allocated memory.
   2. Test all functions in the driver.