

Study Topics for Midterm I, CMSC204

1. Five kinds of questions:
 - a. T/F
 - b. Multiple Choice
 - c. Fill-in
 - d. Given code, what is the result
 - e. Given a specification, write the code
2. Exceptions
 - a. three ways to deal with an exception:
 - i. ignore it
 - ii. handle it where it occurs
 - iii. handle it in another place in the program
 - b. what happens in each of these three ways
 - c. when you create your own exception class, what is created
 - d. what are checked and unchecked exceptions
3. Generic Classes
 - a. What is a generic class
 - b. What is legal syntax for using a generic class
 - c. What happens when a client calls a generic method
4. Big-O
 - a. Rank-order various orders of magnitude
 - b. Find the Big-O of a polynomial
 - c. Find the Big-O of an algorithm
5. Recursion
 - a. Write a recursive method
 - b. Identify the components of a recursive method
6. Linked Lists
 - a. What are the types
 - b. What data elements should be in the nodes
7. Restricted Structures
 - a. Stack is a LIFO structure
 - b. Queue is a FIFO structure
 - c. What is meant by “restricted”