## NOTE: Chapter 17 and Chapter 13 Part 2 (strings) have been dropped for Fall 2000 term

## Chapter 12

Arrays

declarations, size, the values of the subscripts
assign values, input data, output array contents--particularly with the use of a for loop initialize --during compile time and run time parallel arrays – concept, declaration, use in a program arrays of structs or objects
passing arrays as parameters during function calls--automatic by reference out of bounds range of subscripts or identifying the valid range const used in parameter list during function call
Multi-dimension arrays
Process by row or by column

Declare, initialize, print out

Exercises Page 726 Quick Check nos 1-12, Page 729 Exam Preparation Exercises - any of these

## Chapter 13

Array based lists

Searching – sequential and binary
Sorting
understand how the algorithms work, do not memorize the code!
Insertion and deletion in a sorted list

Exercises Page 793 Quick Check nos 2-6, Page 795 Exam Preparation nos 1,4,5,6,7

Be able the write a program that deals with arrays and includes the following types of tasks inputs values, uses arrays, outputs values, reads from a data file, processes the array to perform a certain task

## **Review topics from previous tests/chapters**

- simple output, constants, precedence of operators e.g. +,-,\*,/,%
- if, if else statements and nesting of them
- while statements
- for statements
- functions and parameters
- structs and classes
- ethics of computer use