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Chaminade University Autumn, 2001 CIS 250 File **Processing**

Text: A **Practical** Introduction to Data Structures

and Algorithm Analysis (Second Edition)

Clifford A. Shaffer Prentice-Hall, 2001 ISBN: 0-13-028446-7

Instructor: T. C. Wesselkamper

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Office hours by appointment, Kieffer, II

Grading: 2 mid term tests at 15% 30%

Final exam 20% Up to 10 in class quizzes @ 3% 30% 4 programs @ 5% 20%

Notes:

- Each program must be documented in syntactically correct, semantically clear English. A program whose documentation contains spelling errors is assumed not to work.
- All tests and quizzes are open book and open notes. You may not, however consult another human being. For purposes of this rule the instructor is considered to be human.
- Real programming is a group effort, not an individual effort. It is prudent to work with other students in the class on programming assignments. An assignment submitted may be the work of at most three persons.

Course Objectives:

Cognitive

To understand the mathematical tools which are used in the design of data structures;

To understand the idea of computational complexity and the "Big 0" notation;

To understand tree structured and list structured file organizations;

To understand lists, stacks, trees, and queues as abstract data types;

To understand several sorting techniques and the computational complexity of each.

Skills

To be able to construct programs using **stacks**, queues, lists and trees;

To be able to document, code, test, and deliver a C and C++ programs;

To be able to create tree structured and list structured files;

To be able to sort data using **Several different Sorting** algorithm;

To be able to test empirically assertions about algorithmic complexity.

Schedule:

Dates	Textbook Material
<u>08/27 - 09/07</u>	Number stems and preliminaries
09/10 - <u>09/26</u>	49-139
09/28	Test 1
1001-1031	. 141-258
11/02	Test 2
<u>11/05</u> -12 07	. <u>259-325</u>
12/10 - 12/13	Final Exam

Programming Assignments

These assignments are due by 12:00 midnight on the following dates. The **vbp** and .frm or **cpp** or c file should be e-mailed to **wesselk@lava.net**. The file should contain as a Remark or comment the name of the person or persons submitting the file. Please give each file some name that is highly likely to be unique. Do not use names like **"Project** 1".

_	Program 1	Program 2	Program 3	Program 4
	September 28, 20	0011 October 26, 2001	November 16, 2001	December 7, 2001

Program 1

Textbook, p. 138, #4.2

Program 2

Textbook, p. 189, #5.1

Program 3

Textbook, p.275, #7.3

Program 4

Textbook, p. 325, # 9.2

Chaminade University Spring, 2001 CIS 250 Programming Assignments

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