

CSE 302 Study Guide for the Final Exam on May 03

Spring 2007

The final exam will be held on THURSDAY, MAY 03, 2007, 08:00AM-11:00AM, PA 503 (i.e. Packard Lab 503). It is an open-book exam.

The exam will focus on the contents that have been covered by the lectures and their corresponding textbook materials, and please use **all the lecture slides posted at the Blackboard System** as a reference.

The types and difficulty level of the final exam questions are similar to those of the midterm exam and homework questions.

There will be one or two questions based on the contents introduced by the following lectures from 01/16 lecture to 02/15 lecture.

- 01/16: Introduction (Chapter 1)
- 01/18: Syntax definition and parsing (Chapter 2)
- 01/23: Parsing and Syntax directed translation (Chapter 2)
- 01/25: A simple translator and Lexical analysis (Chapter 2)
- 01/30: Intermediate code generation (Chapter 2)
- 02/01: Symbol tables (Chapter 2)
- 02/06: Lexical analysis overview (Chapter 3)
- 02/08: Regular expressions and Flex (Chapter 3)
- 02/13: Regular expression/NFA/DFA conversion(Chapter 3)
- 02/15: NFA/DFA conversion (Chapter 3)

There will be seven or eight questions from the contents introduced by the following lectures from 02/20 lecture to 04/24 lecture.

- 02/20: Syntax analysis introduction and context-free grammar (Chapter 4)
- 02/22: Writing a grammar, recursive-descent parsing, and FIRST sets (Chapter 4)
- 02/27: LL(1) grammar and predictive parsing (Chapter 4)
- 03/13: Predictive parsing error recovery and implementation (Chapter 4)
- 03/15: LR(0) parsing and SLR(1) parsing (Chapter 4)
- 03/20: LR(0) parsing and SLR(1) parsing (Chapter 4)
- 03/22: LR(1) parsing and LALR(1) parsing (Chapter 4)
- 03/27: Yacc (Chapter 4)
- 03/29: Syntax-directed Definition (Chapter 5)
- 04/03: Syntax-directed Translation and Postfix SDT's (Chapter 5)
- 04/05: SDT with LL-parser (Chapter 5) and DAG (Chapter 6)
- 04/10: Expressions and Array References (Chapter 6)
- 04/12: Type Expressions and Storage (Chapter 6)
- 04/17: Control Flows (Chapter 6)
- 04/19: Boolean Expressions (Chapter 6) and LR parsing with L-attributes (Chapter 5)
- 04/24: Intermediate Code Generation and Type Checking (Chapter 6)