Daily preparation guide

Study the material listed in the preparation section prior to attending class that day. Try to formulate precise questions concerning the parts you don’t understand or the importance of the material.

Thursday, August 18

Introduction:
- Classes begin
- Review of syllabus
- Introduction to Scheme and Scam

Tuesday, August 23

Preparation:
- Section 1.1, The Elements of Programming
- Example questions: http://beastie.cs.ua.edu/proglan/1-1.html
- Example prerequisite material questions: http://beastie.cs.ua.edu/concepts/cs/ds/

Thursday, August 25

- Section 1.2, Procedures and the Processes They Generate
- Example questions: http://beastie.cs.ua.edu/proglan/1-2.html

Tuesday, August 30

Prerequisite exam

Thursday, September 1

Preparation:
- Section 1.3, Formulating Abstractions with Higher-Order Procedures
- Example questions: http://beastie.cs.ua.edu/proglan/1-3.html

Tuesday, September 6

Preparation:
- Grammars http://beastie.cs.ua.edu/proglan/readings/grammars.html

Thursday, September 8

Preparation:
- Section 3.2.1 The Rules for Evaluation
- Section 3.2.2 Applying Simple Procedures
- Section 3.2.3 Frames as the Repository of Local State
- Section 3.2.4 Internal Definitions

Friday, September 9

Preliminary assessment of programming assignment #1 due
Tuesday, September 13
   Preparation:

Thursday, September 15
   Preparation:

Saturday, September 17
   Programming assignment #1 due

Tuesday, September 20
   Preparation:
   - Section 3.2.1 The Rules for Evaluation
   - Section 3.2.2 Applying Simple Procedures
   - Section 3.2.3 Frames as the Repository of Local State
   - Section 3.2.4 Internal Definitions

Thursday, September 22
   Preparation:

Tuesday, September 27
   Preparation:
   - Section 2.2.3, Convenventional Interfaces
   - Example questions: http://beastie.cs.ua.edu/proglan/2-2.html

Thursday, September 29
   Preparation:
   - Section 2.3, Symbolic Data

Tuesday, October 4
   Preparation:
   - Section 2.4, Multiple Representations for Abstract Data

Thursday, October 6
   Preparation:
   - Section 2.5, Systems with Generic Operations

Tuesday, October 11
   Preparation:
   - Section 2.4, Multiple Representations for Abstract Data
   - Section 2.5, Systems with Generic Operations

Thursday, October 13
   Preparation:
Tuesday, October 18
Preparation:
  • Section 3.1.1 Local State Variables

Thursday, October 20
Preparation:
  • Section 3.1.2 The Benefits of Introducing Assignment
  • Section 3.1.3 The Costs of Introducing Assignment

Friday, October 21
  Preliminary assessment of programming assignment #2 due

Tuesday, October 25
Preparation:
  • Section 3.3.1 Mutable List Structure
  • Section 3.3.2 Representing Queues
  • Section 3.3.3 Representing Tables

Thursday, October 27
Preparation:
  • Section 3.3.5 Propagation of Constraints

Friday, October 28
  Programming assignment #2 due

Tuesday, November 1
Preparation:
  • Section 3.4.1 The Nature of Time in Concurrent Systems
  • Section 3.4.2 Mechanisms for Controlling Concurrency

Thursday, November 3
Preparation:
  • Section 3.5.1 Streams Are Delayed Lists
  • Section 3.5.2 Infinite Streams

Tuesday, November 8
Preparation:

Thursday, November 10
Preparation:
  • Section 3.5.3 Exploiting the Stream Paradigm

Tuesday, November 15
Preparation:
  • 3.5.4 Streams and Delayed Evaluation
Thursday, November 17

Preparation:

- Section 3.5.5 Modularity of Functional Programs and Modularity of Objects

Friday, November 18

Preliminary assessment of programming assignment #3 due
Preliminary assessment of the designer programming language due

Friday, November 25

Programming assignment #3 due
Designer Programming Language due

Tuesday, November 29

Dead week

Thursday, December 1

Dead week, last day of class