
CS 350 Programming Language Design Spring 2021

4th Quiz Guide

Date and time

Mon. April 12th , 1:30 – 2:00 P.M. (LA 16)

Major topics:

Chapter 11: Abstract Data Types

11.2 Data abstraction

11.4 language Examples: C++, Java , and Ruby

Chapter 12: Support for OOP

12.1 Introduction

12.2 Object-Oriented Programming

12.3 Design Issues for Object-Oriented Languages

- The Exclusivity of Objects
- Single vs. multiple inheritance
- Allocation of objects
- Dynamic vs. static binding
- Nested classes
- Initialization of objects

12.5 Implementation of Object-Oriented Constructs: C++, Java and Ruby

Chapter 13: Concurrency

13.1 Introduction

13.2 Subprogram-Level Concurrency

- Multiprocessor Architectures
- Task states and scheduling
- Thread programming using OpenMP
 - Directives and clauses
 - Data sharing directives
 - Parallel for
 - Synchronization