

Midterm Review

CS 351 Oct 14

Midterm!

- Next Thurs: Oct 23
- Basic Concepts:
 - Time/Space Complexity
 - Java features/syntax
- Design
 - Interface/Abstract, Generics
 - Design Patterns

Basic Concepts

- Complexity!! (You should know this)
- Ex:
 - Linked List
 - Vector
 - Hash
- Cost of:
 - Insert
 - Find

Basic Concepts

- Interface versus Abstract class
- Static, final, immutable
- Static:
 - Variable
 - Method
 - Class
- Generics: use examples

Patterns

- Structural, Behavioral, Creational
- Know at least the ones we covered in class!
- Implementation examples

Patterns

- Singleton
- Adaptor
- Command
- Observer
- Strategy
- Bridge
- Listener

Patterns (not discussed in Class)

- Factory
- Prototype
- Iterator
- Memento

Other Stuff

- Exceptions
- UML (Class & Sequence Diagrams)
- Serialization
- Testing
- Style