Midterm Exam

• Next class: Friday, October 18, 2013
Midterm Review

1. Java syntax and review
2. Static members
3. Abstraction barrier
4. Recipe for implementing an immutable ADT that is specified by an algebraic specification.
5. Abstraction mechanisms
6. Procedural abstraction
7. Data abstraction
8. Iteration abstraction
9. Testing
10. equals, hashCode, toString
11. Factory method pattern
12. Exceptions
13. Designing testing harness
14. Writing algebraic specifications
15. Abstraction function
16. Rep invariant
17. Iterator and Iterable
18. Total order
19. Binary search tree
20. Nested classes
21. Asymptotic notation
22. Efficiency
23. Debugging
24. Mutability
25. Java access modifiers
26. Abstract data types
27. Overriding vs. Overloading