Tutorial 1

These questions refer to the lectures presented in week 1 of Object Oriented Programming with Java. They will be covered during the tutorial during week 2.

From C to Java

- 1. Why do you already know most of Java syntax?
- 2. List two Java output commands. What do they do? How do they differ?
- 3. What does "Hello " + "world." product?
- 4. How do you read an integer in Java?
- 5. What is the difference between a reference and a pointer?
- 6. What are the similarities between a reference and a pointer?
- 7. Can you create a memory leak with a reference?
- 8. What do private and public mean in Java?
- 9. What is an Object in Java?
- 10. What is an instance variable in Java?
- 11. What is a method in Java?
- 12. What is a class in Java?
- 13. What is a constructor in Java? What does it do?
- 14. What is the relationship between classes and objects?
- 15. What does the keyword "this" mean in Java?
- 16. How are variables formatted in Java?
- 17. What is a Java package?
- 18. What is the purpose of packages in Java?
- 19. Where does the main() method go in Java?
- 20. How many main() methods may a program have in Java?

Setting up Eclipse

- 21. What is an IDE?
- 22. What are the steps to creating a new project in Eclipse?
- 23. What are the steps to adding a new class in Eclipse?
- 24. What is test driven development?

- 25. How do you set up your Eclipse project to do Test Driven Development?
- 26. What are the steps to adding a JUnit test to your test folder?

TDD with Java and Eclipse

- 27. What are the five steps of Test Driven Development?
- 28. In JUnit 4 what signals that a method is a test?
- 29. What does Control-<Space> do?
- 30. What does Control-1 do?
- 31. That does the work TODO do?
- 32. What visibility should a constructor function be given?
- 33. What is the name of the Tab that shows all of the TODOs?
- 34. How do you run a JUnit test?
- 35. Where are the results of the JUnit test displayed?
- 36. How do you add getter and setter methods?
- 37. How do you choose to add only getter methods? Only setter methods?
- 38. How do you check the value of a variable in JUnit?
- 39. How do you turn a class into a program?
- 40. What is the difference between system testing and unit testing?
- 41. What is System?
- 42. What is the out in System.out?
- 43. How do you run a program in Eclipse?
- 44. What type of parameter does System.out.println take?
- 45. What type of parameter does the main method take?
- 46. What does the toString method do?
- 47. What does it mean to override a method?
- 48. Where is the toString method defined initial? Where is it overridden?
- 49. What is inheritance in Java?
- 50. What is a super class?
- 51. How do you specify inheritance when defining a class using Eclipse?