CSCI 1321 (Principles of Algorithm Design II), Fall 2006
Review for Midterm Exam

1 Format of the exam

The exam will be in class October 10. You will have 75 minutes. You may use your textbook and any
notes or papers you care to bring (with the exception of any materials from this course in previous
years), but you may not use other books, each other’s papers, or a calculator or computer, except
that you may use a browser to look at material on the course Web site or at Sun’s documentation
of the Java library.

Questions will mostly be similar in format to the ones in quizzes, but probably longer and/or
more difficult. There might also be a few multiple-choice or short-answer questions.

2 Topics to review

You are responsible for all material covered in class or in the assigned reading. (See the schedule
for a list of assigned reading.) You should review in particular the following topics.

- Basic Java syntax and semantics, including classes, import, the difference between primitive
types and objects, generics, and exceptions.
- Inheritance and interfaces.
- Polymorphism.
- String processing — the Java String class and how to use it.
- Arrays in Java; sorting and searching of arrays.
- Stacks and queues — as ADTs, implementation using arrays.