Homework 2

CSC 1351, Spring 2006

Due: 2 March 2006

1. Solve the following exercises in the textbook (2nd edition):

   For the questions from Chapter 12, I recommend that you look up the details in the Java library documentation.

2. Given the following Java code fragments

   ```java
   class C {
       public int foo(C p) { return 1; }
   }

   class D extends C {
       public int foo(C p) { return 2; }
       public int foo(D p) { return 3; }
   }

   // ...
   C p = new C();
   C q = new D();
   D r = new D();

   int i = p.foo(r);
   int j = q.foo(q);
   int k = q.foo(r);
   ```

   Which methods get called in the three calls, i.e., what are the values of \( i \), \( j \), and \( k \)? The behavior might surprise you, so you might want to run the code.