Exercise 9 Answers

Arrays

```
1. (a)
   (b) Add the following line to the end of the doStuff method:
       double[] nums = new double[10];
   (c) for (int i=0; i<10; i++) {
          nums[i] = 1 + i * 0.1;
   (d) for (int i=0; i<10; i++) {
          System.out.println(nums[i]);
   (e) ArrayPrint.printArray(nums);
   (f) Define the method like so:
       public void printArray(double[] x) {
          for (int i=0; i<x.length; i++) {</pre>
              System.out.println(x[i]);
       }
   (g) printArray(nums);
2. (a)
   (b) Add the following line to the end of the doStuff method:
       Human[] threesome = new Human[3];
   (c) threesome[0] = new Human("Angus");
       threesome[1] = new Human("Brian");
       threesome[2] = new Human("Charles");
       As an alternative to the last four lines of code that define and initialise the threesome
       array, it is possible to define and initialise the threesome array using a special compound
       statement that will be familiar to C programmers:
       Human[] threesome = {new Human("Angus"),
                               new Human("Brian"),
                               new Human("Charles"));
       I will not use this technique in these examples because I consider it to be a little obscure.
   (d) for (int i=0; i<2; i++) {
          System.out.println(threesome[i]);
       Alternatively, the following does the same thing:
       for (int i=0; i<2; i++) {
          System.out.println(threesome[i].toString());
```

(e) Define the method like so:

```
public void printArray(Human[] x) {
   for (int i=0; i<x.length; i++) {
      System.out.println(x[i]);
   }
}</pre>
```

(f) ArrayPrint.printArray(threesome);