CSE 341 — Java Collection Discussion Questions

1. Suppose you have a set s containing some strings. Write a code fragment that uses an iterator to print out each element in s.

2. Again suppose you have a set s containing some strings. Write a code fragment to compute the result of concatenating all of these strings together. (Recall that + is the string concatenation operator.)

3. Write Java code to define yet another Set s. Insert 3 floating point numbers in s, and using an iterator, find the sum of the numbers in s.

4. Consider the MyArray example handed out in class. Is the following code legal? If so, what does it print? If not, why isn’t it legal?

   ```java
   MyArray a = new MyArray(10);
   a.set(0,"hi");
   a.set(1,"there");
   Iterator i = a.iterator();
   System.out.println(i.next());
   ```

5. What about the following rather similar code fragment?

   ```java
   MyArray a = new MyArray(10);
   a.set(0,"hi");
   a.set(1,"there");
   MyIterator i = a.iterator();
   System.out.println(i.next());
   ```

6. What about this one?

   ```java
   MyArray a = new MyArray(10);
   a.set(0,"hi there");
   Iterator i = new MyArray.MyIterator();
   System.out.println(i.next());
   ```