CS 215 – Study Questions 7
Vectors and C-Style strings

1. Part 1 – Step 12a Which CoordinatePoint functions are executed when the points are read from the file?

2. Part 1 – Step 12a Which CoordinatePoint functions are executed when the points are written to standard output?

3. Part 1 – Step 12a Which CoordinatePoint functions are executed when the sum of the points is calculated?

4. Part 1 – Step 12a Which CoordinatePoint functions are executed when the points are sorted?

5. Part 1 – Step 12a Which CoordinatePoint functions are executed when the first point is erased?

6. Part 1 – Step 12a Which CoordinatePoint functions are executed when a new point is inserted at the beginning of the vector?

7. Part 1 – Step 12a Which CoordinatePoint functions are executed when the last point is popped?

8. Part 1 – Step 12a Which CoordinatePoint functions are executed when the remaining points are cleared?

9. Part 1 – Step 13 Now which CoordinatePoint functions are executed when the sum of the points is calculated?

10. What are the benefits of using a vector instead of an array in a program?

11. What are the drawbacks of using a vector instead of an array in a program?

12. What does the vector function push_back do? What arguments need to be passed to push_back?

13. What does the vector function pop_back do? What arguments need to be passed to pop_back?

14. How do you sort the entries in a vector using the sort from the algorithm library?

15. How do you create a C string containing the phrase "Hello World!"?

16. How do you create a C++ string containing the phrase "Hello World!"?

17. How does a C string differ from a C++ string object?