Programming Project, Part II

General Description:
In this second part of the project, you will implement the divide and conquer algorithm for finding the closest pair of points, as described in our textbook on pages 957–961.

Detailed Description:
Implement the divide and conquer algorithm for finding the closest pair of 2-D points as described in our textbook on pages 957–961. As we saw in class, in the merge operation, you only need to compute the distance of a point $p$ to the next 3 following points. You can implement the algorithm on the computer of your choice, and using the language of your choice. But since you will have to combine this program with the program you wrote in part I, you should use the same language and machine, otherwise you will have to redo part I before you do part III.

Turn in: Turn in by either e-mail or hard copy,

- A listing of your program
- Some sample runs

Due date: October 25th. The penalty is 10% for each day late up to one week late. No homework accepted after one week.