Implement the Brute Force and Divide & Conquer algorithms to find the closest pair of points in a set.

Your two functions should be members of a class `PointSet` which contains a set of `Point` objects. To get you started, I have made available header files for these two classes on my web page.

I will use the program `testcp.cc`, also available on my web page, to test your implementations in Linux. This program times the two algorithms for comparison. To receive full credit for this assignment, your implementation of the Divide & Conquer algorithm must run significantly faster than the Brute Force algorithm.

I will be grading your program on correctness, elegance of design, and efficiency. It would be a good idea to have a working program a day or two before the due date to give you time to fine-tune your code to satisfy these requirements.

Have fun!