

CSCI 562
Closest Pairs Project (50 pts)
Due: September 15, 2010

This problem requires you to solve a simple geometric problem and write a program that implements your solution. **You are not allowed to use the internet or consult any references. This is an individual project.**

1. *Problem Description*: Available at <http://uva.onlinejudge.org>. You'll need to register. Then, click "Browse Problems", and go to "Programming Challenges (Skiena and Revilla)." The problem is listed under Chapter 14 and its title is "10245 - The Closest Pair Problem."
2. *Deliverables*: Please submit a **hard copy** of all of the items requested below. Please don't send this by e-mail as I would have to print it out anyways. Please also submit an **executable file** to Blackboard's digital drop box.
 - (a) **[10 pts]**: Describe your algorithm in English or pseudocode and argue that it works correctly.
 - (b) **[5 pts]**: What is the time complexity of your algorithm?
 - (c) **[5 pts]**: Submit a print-out of your code. If you are unable to get your code to compile/run, please state this explicitly.
 - (d) **[25 pts]**: Submit your code/executable to Blackboard to be run on a set of inputs devised by the grader. Your code will be run on an Alamode lab machine.
 - (e) **[5 pts]**: Submit your code for robot judging and submit evidence that it ran successfully.