

# CSC-421 Applied Algorithms and Structures

## Fall 2021-22

**Instructor:** Iyad Kanj

**Office:** CDM 832

**Phone:** (312) 362-5558

**Email:** [ikanj@cs.depaul.edu](mailto:ikanj@cs.depaul.edu)

**Office Hours (Office/Zoom):** Mon. 4:00-5:30 & Wed. 10:00-11:30

**Course Website:** <https://d2l.depaul.edu/>

## Programming Assignment

(Due November 8)

Implement the algorithm for the closest pair of points. Your algorithm should input the coordinates of the points in the point-set from a text file whose format matches the test files uploaded on D2L, and output (1) the coordinates of a closest pair in the point-set, and (2) the distance between the two points in the closest pair.

You have to use (a version) of one of the following *standard* programming languages: *C*, *C++*, Java, or Python. Please test your code on the test files that are uploaded on D2L (under Submissions, in the same folder as the assignment), and compare them to the posted solutions in the solution file. The grader will test your programs on the uploaded test files (text files). So make sure that your program runs correctly on the uploaded test files.

Please create a single “.zip” file containing your source code file(s) and upload it on D2L.