

CSC 421 Applied Algorithms and Structures

Spring 2019

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Programming Assignment

(Due May 20)

Implement the algorithm for the closest pair of points (Section 33.4 in the textbook and lecture notes under “Content” on D2L). 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.

Instructions

1. You can use any *standard* programming language (C , C^{++} , $C\#$, Java, Python, etc.).
2. Test your code on the test files in D2L (located in the same folder as the assignment), and compare your solutions to the provided solutions (same folder). The grader will test your program on the uploaded test files (text files). Make sure that your program runs on these test files.
3. Submit all the files containing your source code. Make sure that the files compile and run.
4. Please create a single “.zip” file containing all your submission files and upload it on D2L.