CS603: Assignment-2

Date : Feb 16, 2024 Geometric Algorithms, Spring 2024

Due: 11:59:59 pm, Feb 24, 2024

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1. Please read the instructions below carefully.
   (a) Do not copy your code from another student or from the internet.
   (b) No submissions will be accepted beyond the mentioned deadline.
   (c) Submissions should be made on Moodle.
   (d) There is no restriction on the programming language to be used for implementing the algorithms.
   (e) The input would be given as an array. A point is represented by a pair of values.
   (f) Name your submission folder as "roll.zip", where roll denotes your roll number. For example, if your roll number is 203145, then name the submission folder as "203145.zip".
   (g) Include a script file which takes appropriate input and runs your code. Name that file "test.sh".
2. **(100 points)** Let P be a set of n points in $\mathbb{R}^2$. Compute and plot the Voronoi Diagram of P using Fortune's algorithm, such that given a query point q it can indicate the Voronoi cell it belongs to.