CS133 Lab 7– Line Simplification

Objective

• Simplify a polyline using Douglas-Peucker algorithm

Detailed Requirements

Define a data type Polyline as a list of Points. You are required to implement the Douglas-Peucker line simplification algorithm that, given a polyline and a threshold ε , it returns a simplified version of the polyline where the points in the simplified line are displaced at most a distance of ε .

Functions

Polyline Simplify(Polyline P, double epsilon)
Simplify the input polyline P according to the given threshold and returns a new polyline.

Feel free to add any supporting functions as you see appropriate.