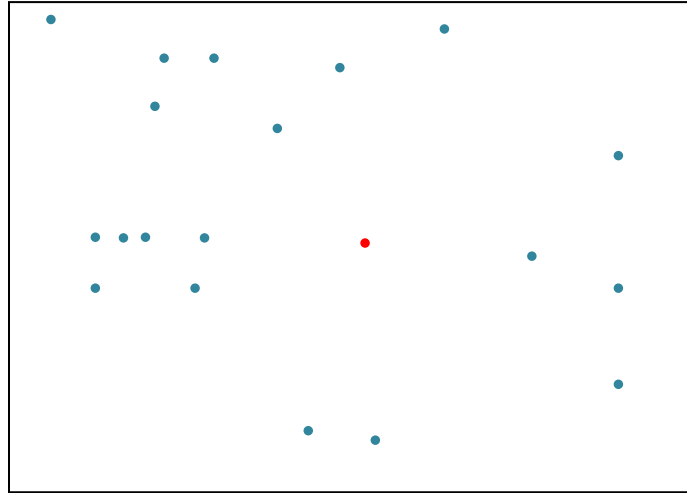


GEOG 1180 Introduction to Geo-Programming

Assignment 4 Identifying Neighbors



In this assignment, you will identify neighbors of the red point (central point). There are 20 blue points and one red point (see the above figure). The purpose is to identify which blue points are the red point's neighbors. The blue point is considered to be a neighbor of the red point if it is within 536,000 meters of the red point (Euclidean distance).

The IDs and coordinates of the blue points and red point are given in the Python script "Assignment4.py". In the script, a list named "blue points", contains the ID, X coordinate and Y coordinate of the blue points; a variable named "red point" contains ID, X coordinate and Y coordinate of the red point. The coordinate unit is meters.

In "Assignment4.py", please write a script to identify all the blue points that are within 536,000 meters of the red point, store them in a list, print out their IDs, and print the total number of point neighbors.

Submit your Python script named "Assignment4.py" in Canvas.