CSC 4740/6740 Data Mining

Assignment 6

Due Date: 11:59pm, 12/2/2022

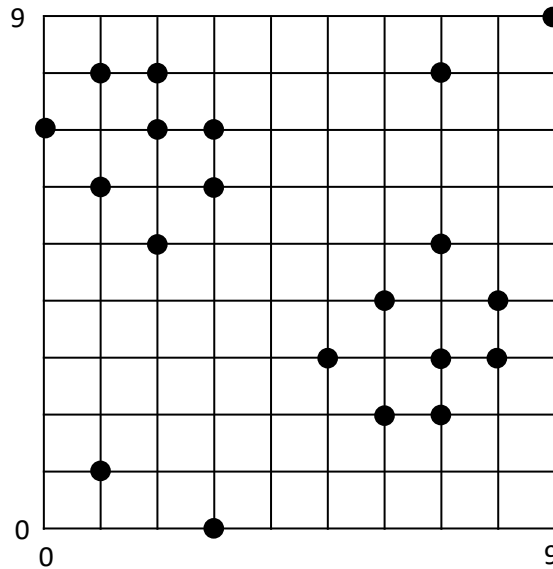**Only the electronic version will be accepted. Please submit it through iCollege.**

Figure 1. Dataset

1. (15 points) Please illustrate the k-means algorithm on the dataset in Figure 1.

Solutions:

2. (15 points) Please illustrate the k-medoid algorithm on the dataset in Figure 1.

Solutions:

3. (16 points) Please illustrate the AGNES algorithm on the dataset in Figure 1.

Solutions:

4. (18 points) Please illustrate the DBSCAN algorithm on the dataset in Figure 1.

Solutions:

5. (18 points) Please illustrate the OPTICS algorithm on the dataset in Figure 1.

Solutions:

6. (18 points) Please illustrate the spectral clustering algorithm on the dataset in Figure 1.

Solutions: