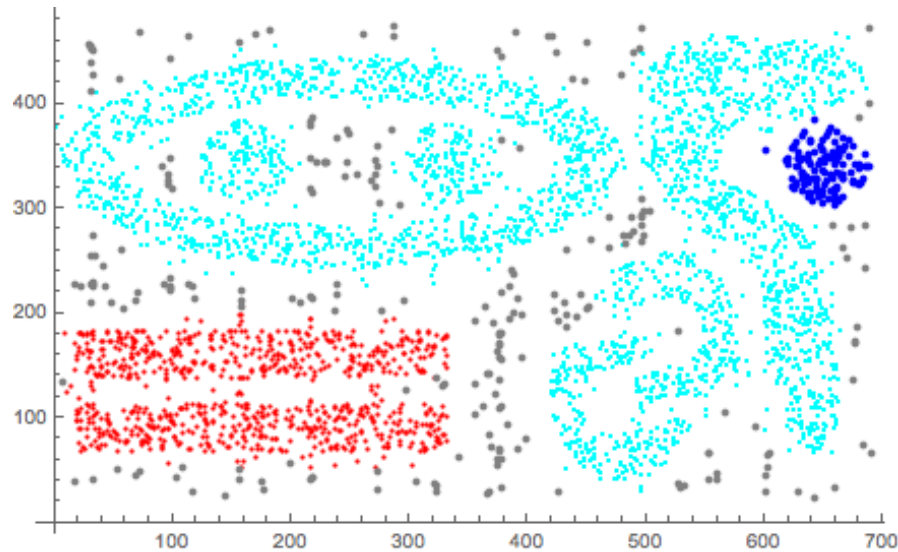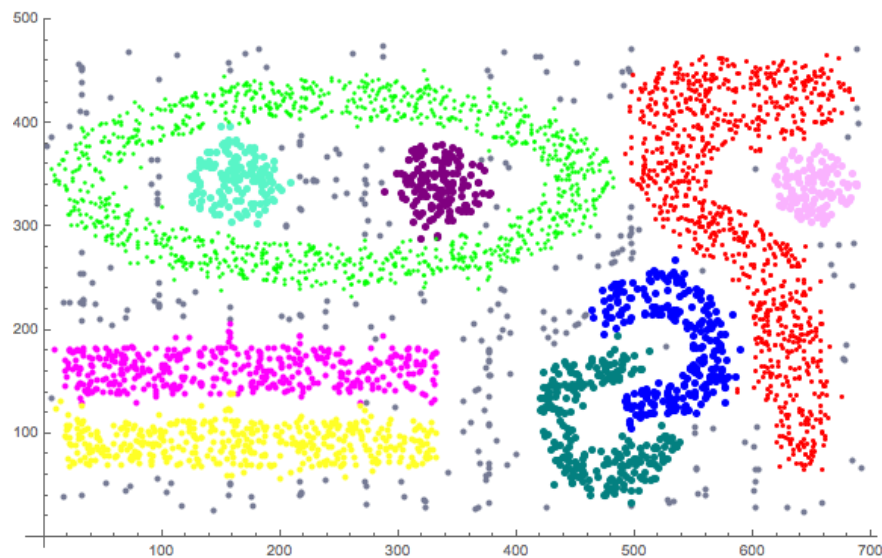484 Machine Problem 2

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I choose DBSCAN as the algorithm and implement it in c++. Then I use Mathematica to plot them

Here are two examples of result with different epsilon and minpts.

epsilon=20,   minpts= 20 ,   cluster number: 3

epsilon=15, minpts=10, cluster number: 9

Conclusion:

When epsilons are large and minpts are small, more points are set as points and density connected, which may cause fewer clusters than expected.