Practice Problem 10

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Problem 1 — Assuming some Eps, which would require a higher value for MinPts:
Identifying A&B as clusters, or identifying C&D as clusters?

Answer
C & D would require a higher minimum points, as for any given radius, A&B have more points within it compared to C&D.

Problem 2 — Using an Eps and MinPts that identifies C and D as clusters, what areas would be identified as noise? And how many total clusters would be found?

Answer
3
(A, B, E)- would be considered one cluster as all the regions meet the threshold for a cluster.
(C)- meets threshold for cluster.
(D)- meets threshold for cluster.
F isn't part of a cluster, as the region isn't dense enough, so it'll be considered noise.

Problem 3 — Using an Eps and MinPts that identifies A and B as clusters, what areas would be identified as noise? And how many total clusters would be found?

Answer
2
(A)- meets threshold for cluster.
(B)- meets threshold for cluster.
C, D, E, F- All considered noise as the regions aren't dense enough for the points to be clustered.