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Problem 5

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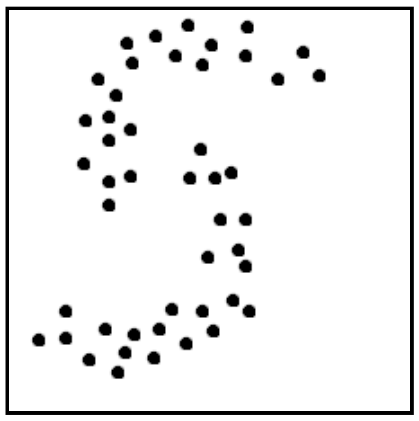
Final due Dec 14, 2022 07:30 +08

Problem 5

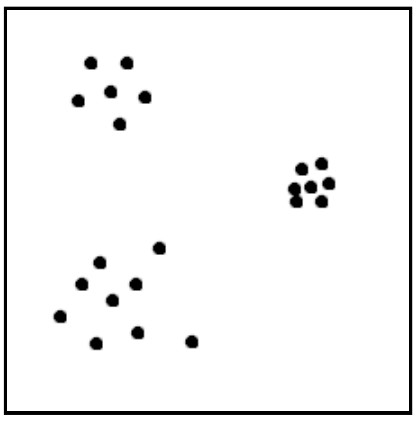
12/12 points (graded)

K-means is a greedy algorithm, meaning it looks for local minimum when choosing points closest to the centroid. For each dataset illustrated below, will k-means, as shown in lecture, using Euclidean distance as the metric be able to find clusters that match the dataset patterns?



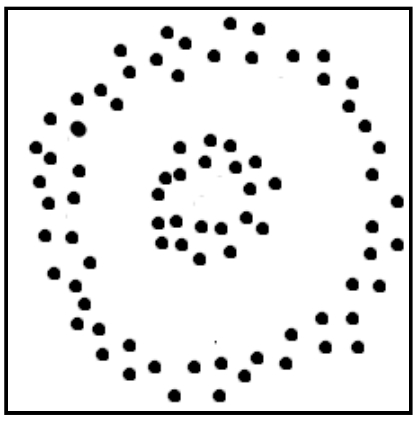
Dataset 1

- [ ] Yes
- [x] No



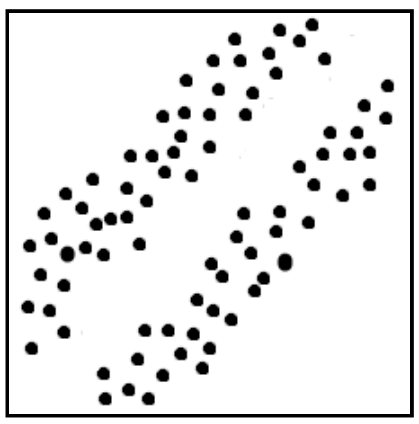
Dataset 2

- [x] Yes
- [ ] No



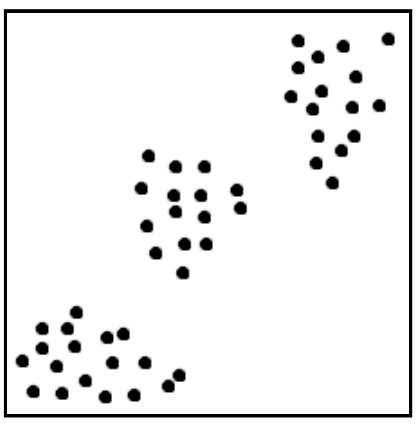
Dataset 3

- [ ] Yes
- [x] No



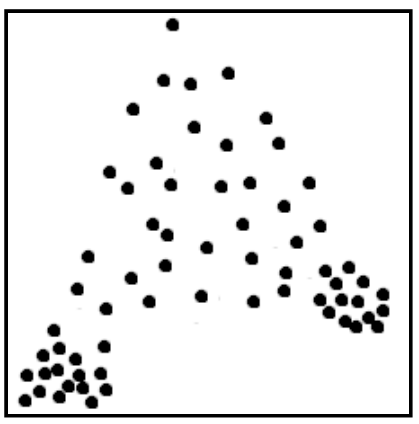
Dataset 4

- [ ] Yes
- [x] No



Dataset 5

- [x] Yes
- [ ] No



Dataset 6

- [ ] Yes
- [x] No

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✔ Correct (12/12 points)

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