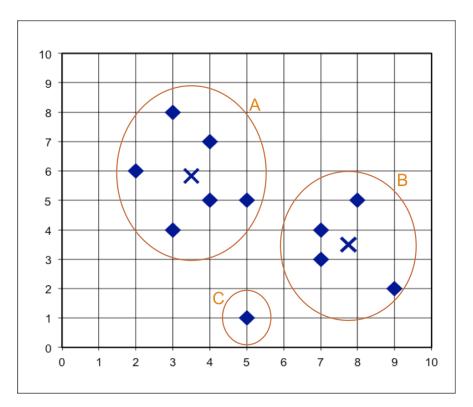
Lesson 4 Quiz _{测验,4个问题}

2.

1 point	
1。 Which of the following is a hierarchical clustering algorithm?	
	K-Medoid
	K-Means
	BIRCH
	DBSCAN
1 point	:

Consider the three clusters A, B, and C shown in Figure 1. Using Lesson 4 Quixdean distance as the similarity measure, which two clusters would be merged first in agglomerative clustering using complete link (diameter)?



- () A and B
- () A and C
- B and C
- All three options above are tied.

1 point

3. Consider the three hierarchical clustering algorithms introduced in Lecture 4, BIRCH, CURE, and CHAMELEON. Which of the following statements about these algorithms is TRUE? (Select all that apply)

BIRCH and CHAMELEON both use a two-phase algorithm where small clusters are first formed via a divisive mechanism before some other clustering algorithm is used to merge them into the final clusters.
All three algorithms are good at detecting irregular (nonspherical) shaped clusters.
All three algorithms can only work with Euclidean distance as the similarity metric.
Clustering results of BIRCH are sensitive to the insertion order of data points.
from Lecture 4-8 that the objective of learning generative s is to find the parameters that maximize the likelihood of served data. Suppose we have a set of points D drawn from ian distribution. For D = {-4, 5, 14}, which of the following set ameters (μ , σ) produces the maximum L(N(μ , σ ²): D)? $\mu = 5, \sigma = 9$ $\mu = 4, \sigma = 5$



 $\mu = 0, \sigma = 9$

μ = 5, σ = 4

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